

NASA-TM-89691

WORLD DATA CENTER A for ROCKETS AND SATELLITES

86-17

(NASA-TM-89691) PROMIS SERIES. VOLUME 3: 6
keV ELECTRON AND PROTON FLUXES FROM ISEE 1
EXPERIMENT (NASA) 103 p

N90-70522

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PROMIS SERIES

VOLUME 3

6 keV Electron and Proton Fluxes from ISEE 1 Experiment



National Aeronautics and
Space Administration

Goddard Space Flight Center

NSSDC/WDC-A-R&S 86-17

PROMIS SERIES

VOLUME 3

**6 keV Electron and Proton Fluxes from ISEE 1 Experiment
(Principal Investigator: K. A. Anderson)**

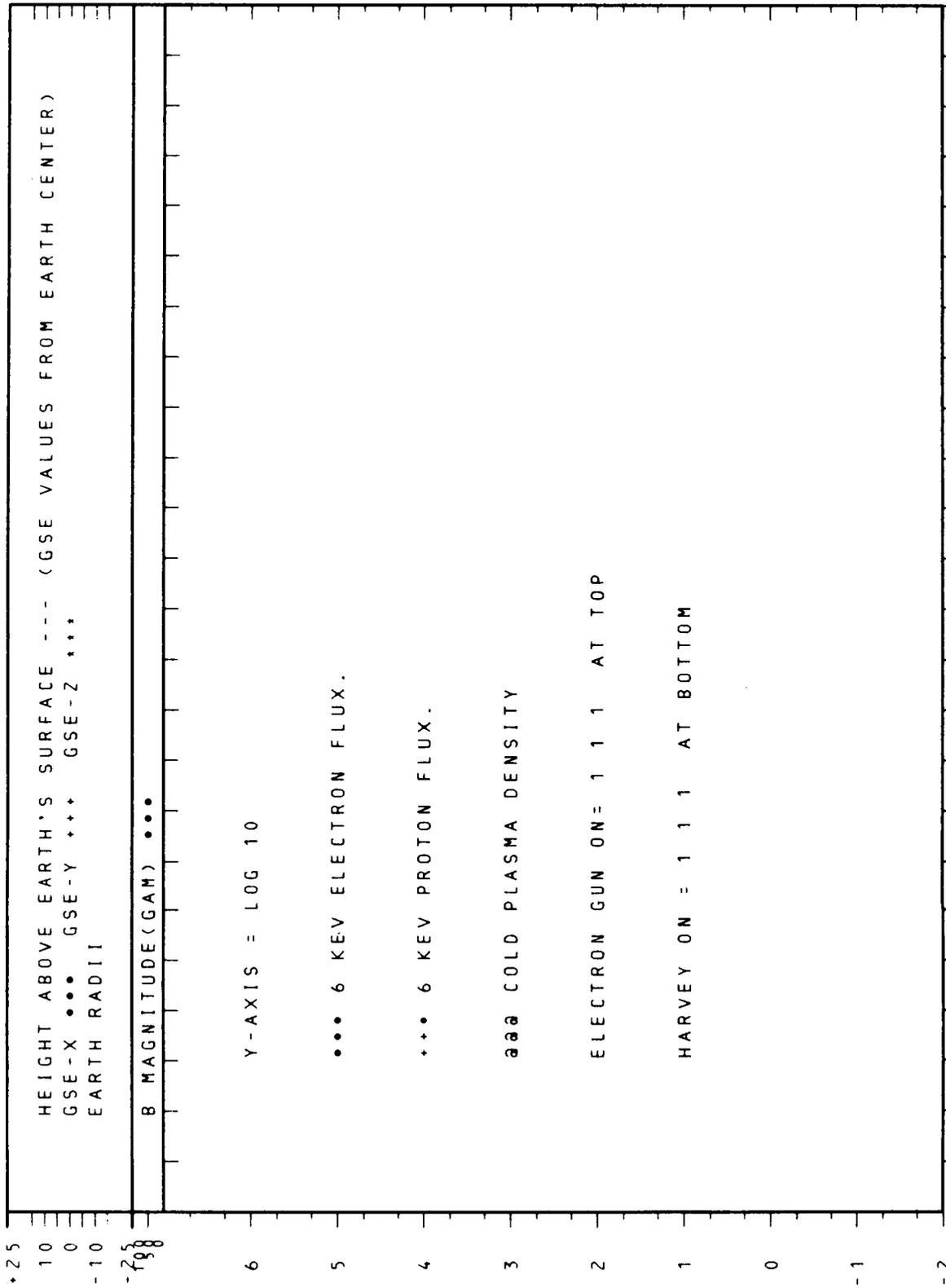
November 1986

FOREWORD

This volume contains plots* of 6 keV electron flux and 6 keV proton flux measured by the particle detector of Anderson et al. (1978) on ISEE 1. The measurements cover the PROMIS period, March 29-June 16, 1986, plus 18 additional days to include the interval from the beginning of regular imaging of the auroral oval by Viking on March 11 to the beginning of PROMIS. The detector looks northward, parallel to the spin axis (i.e., normal to the ecliptic plane). These electrons and protons are representative of the plasma sheet plasma and the plots are particularly useful in identifying the dropouts and recoveries of the plasma sheet (beyond about 12-15 R_E) that often mark the occurrence of substorms. The location of ISEE 1 in GSE coordinates can be determined from the graph at the top. Further information regarding these plots is given on the following page. Permission of the experimenters to distribute their unpublished data in this report is gratefully acknowledged.

Anderson, K.A., R.P. Lin, R.J. Paoli, G.K. Parks, C.S. Lin, H. Reme, J.M. Bosqued, F. Martel, F. Cotin and A. Cros, An experiment to study energetic particle fluxes in and beyond the earth's outer magnetosphere, IEEE Transactions on Geoscience Electronics, GE-16, 213, 1978.

*The NSSDC ID for the microfilm of these pool plots is 77-102A-10A. Camera-ready hard copies of the plots were made available by Dr. E.W. Hones, Jr., of the Los Alamos National Laboratory.



+25

10

0

-10

-20

-30

6

5

4

3

2

1

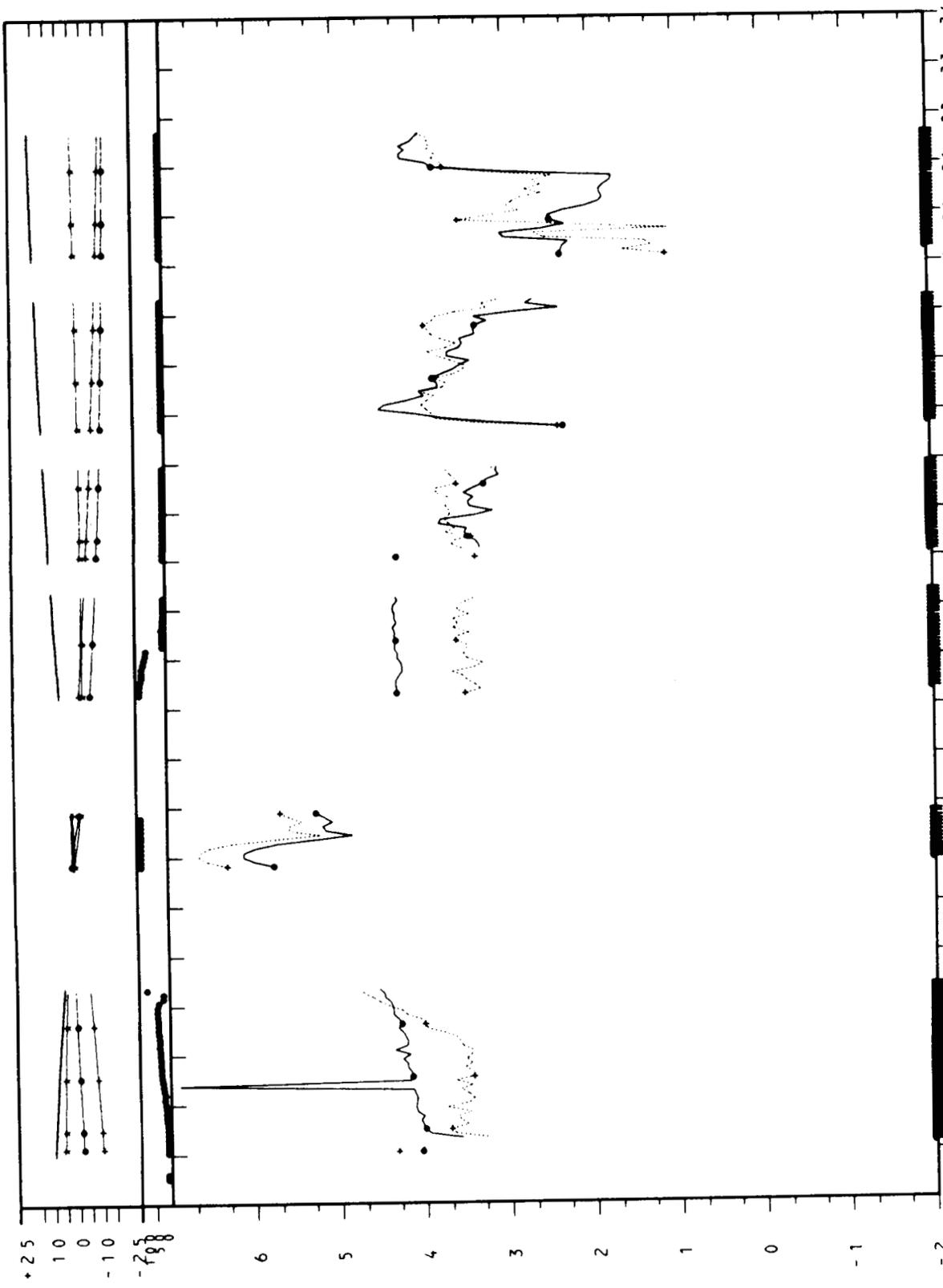
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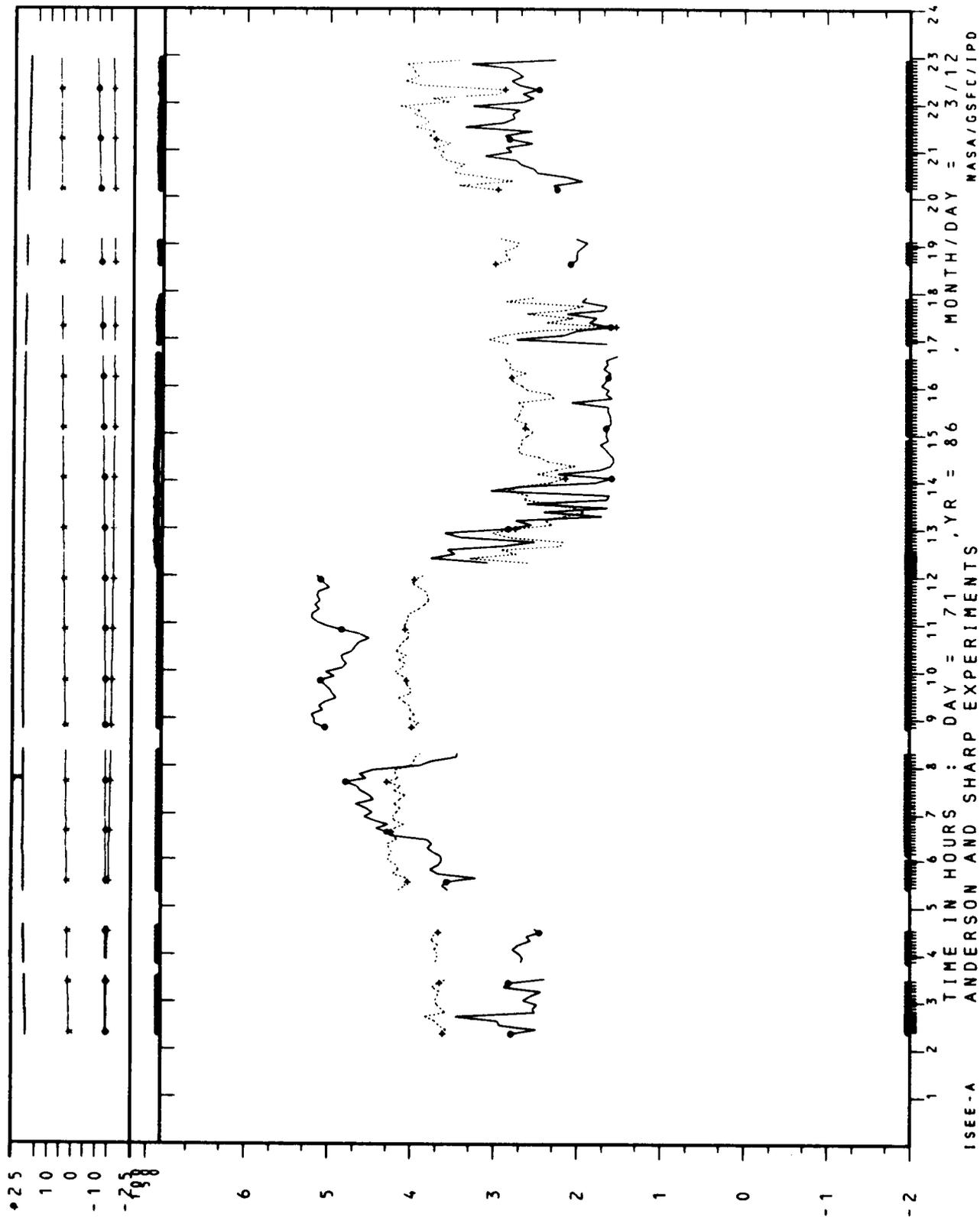
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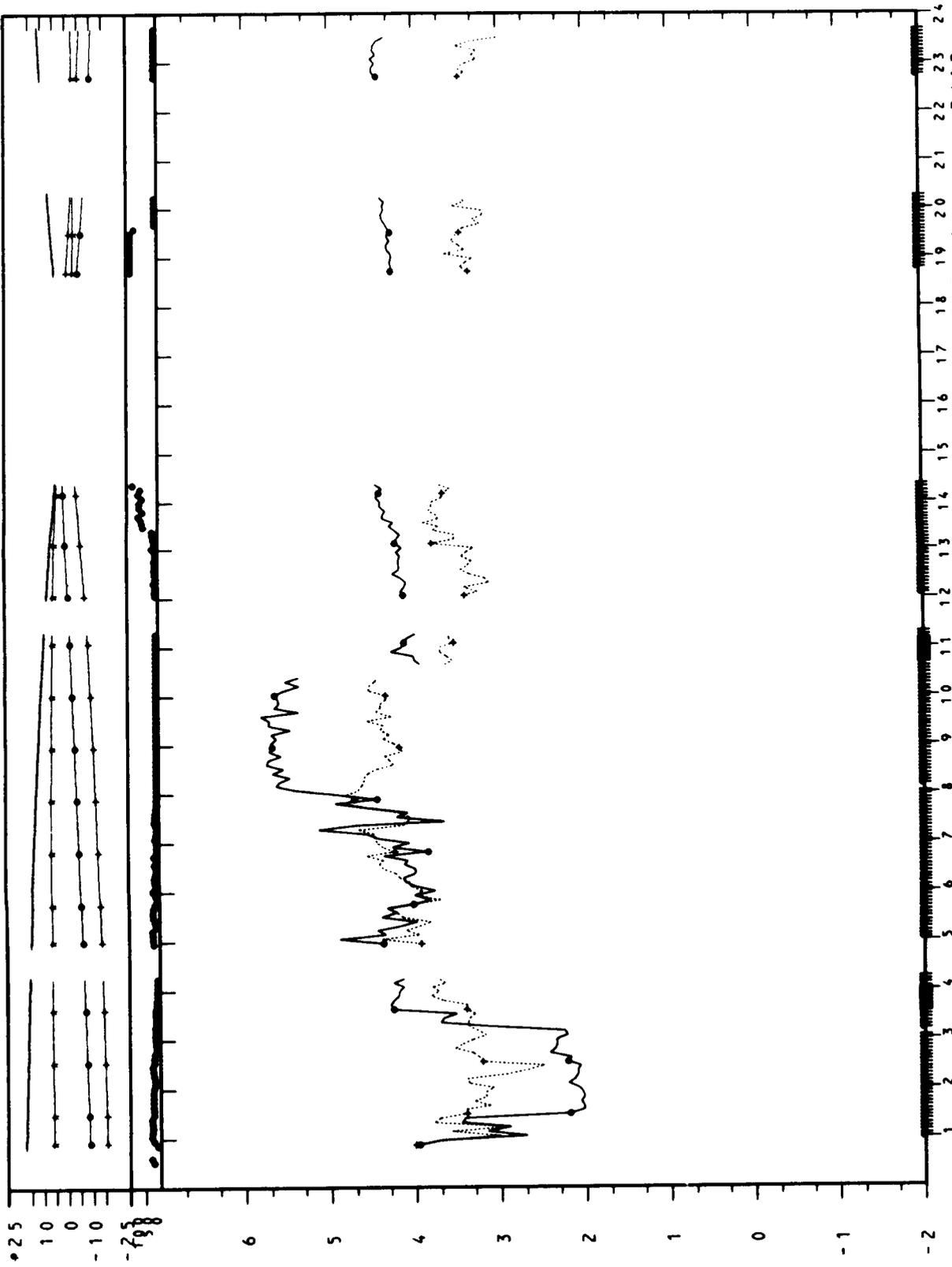
15EE-A

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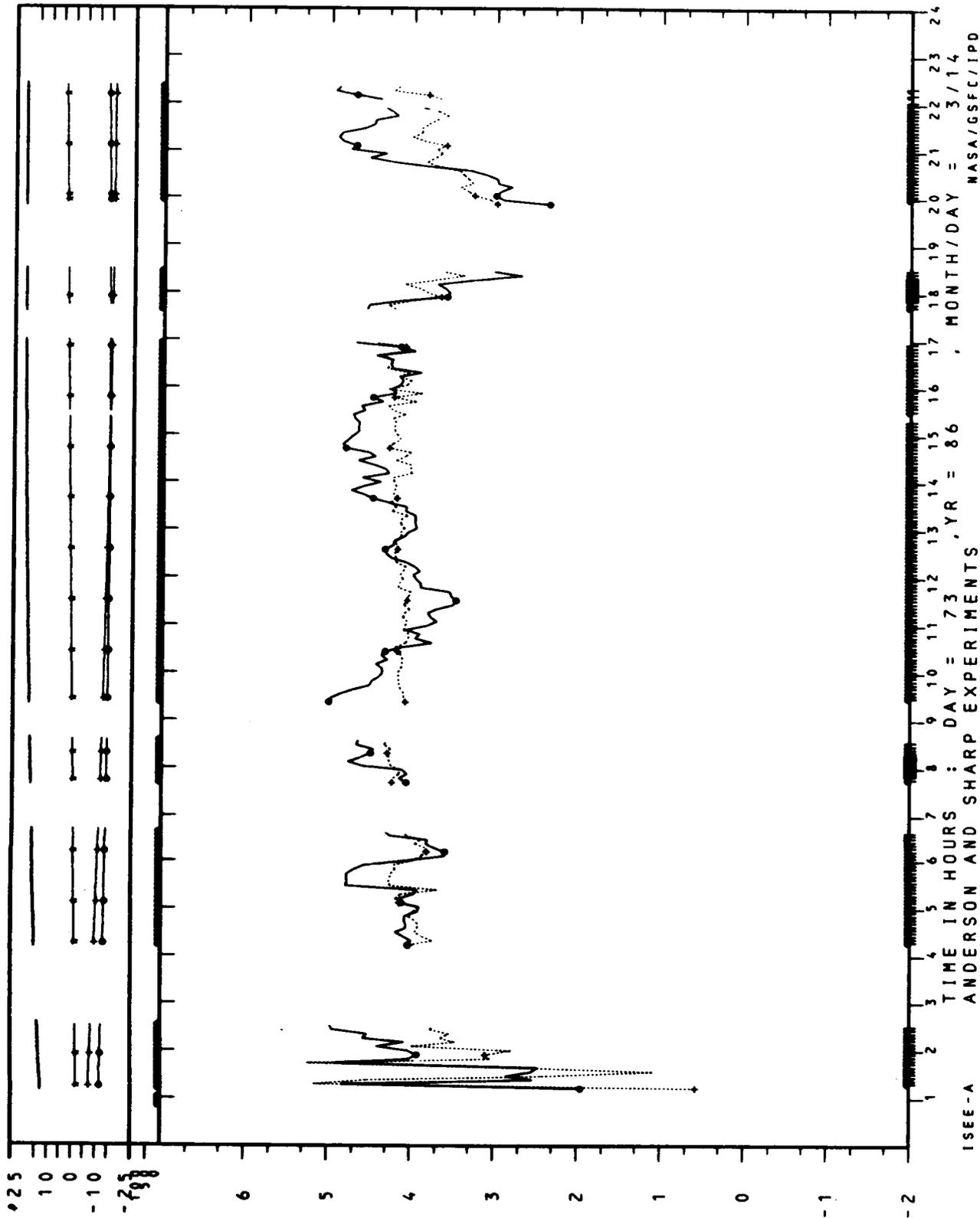


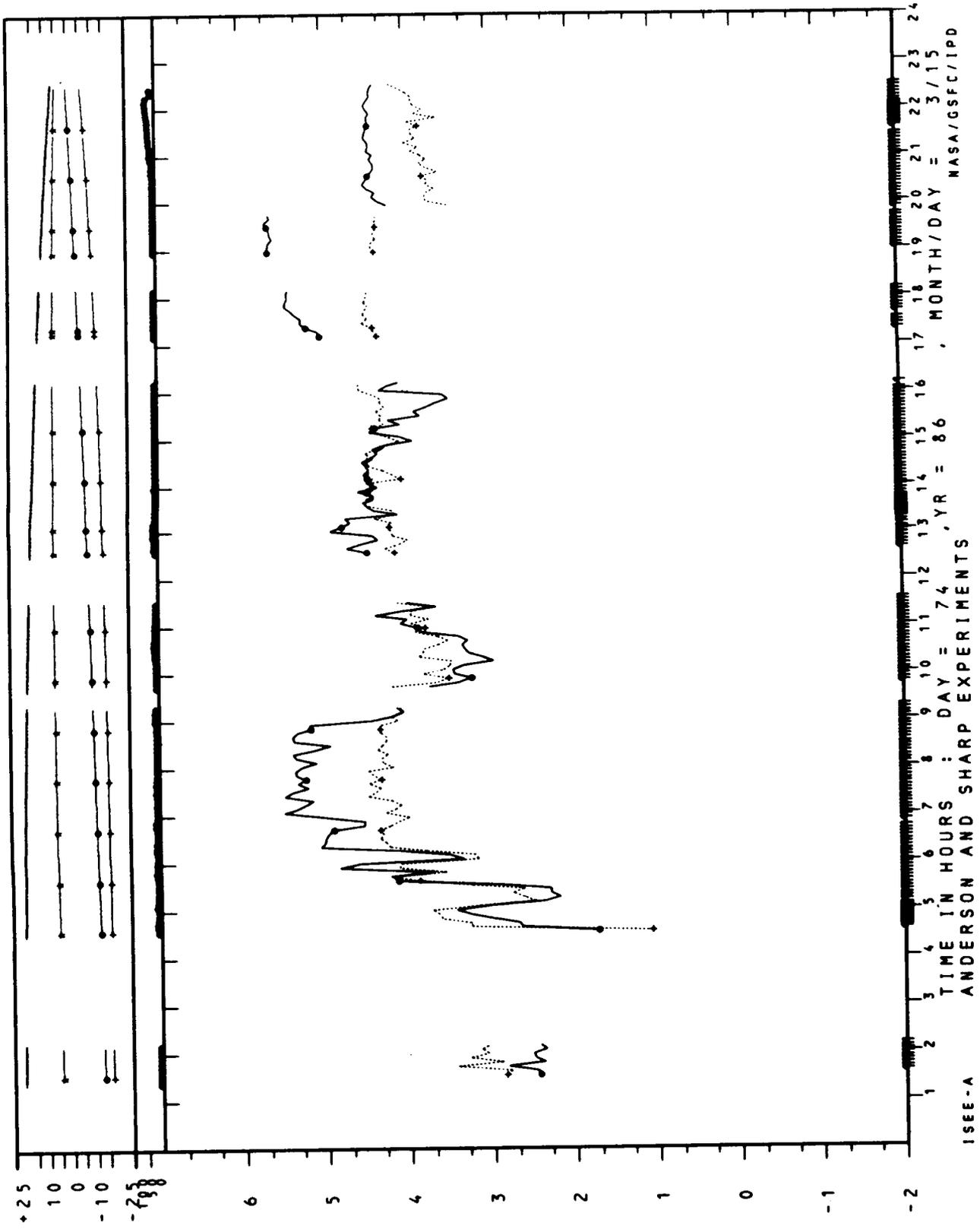
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 NASA/GSFC/IPD

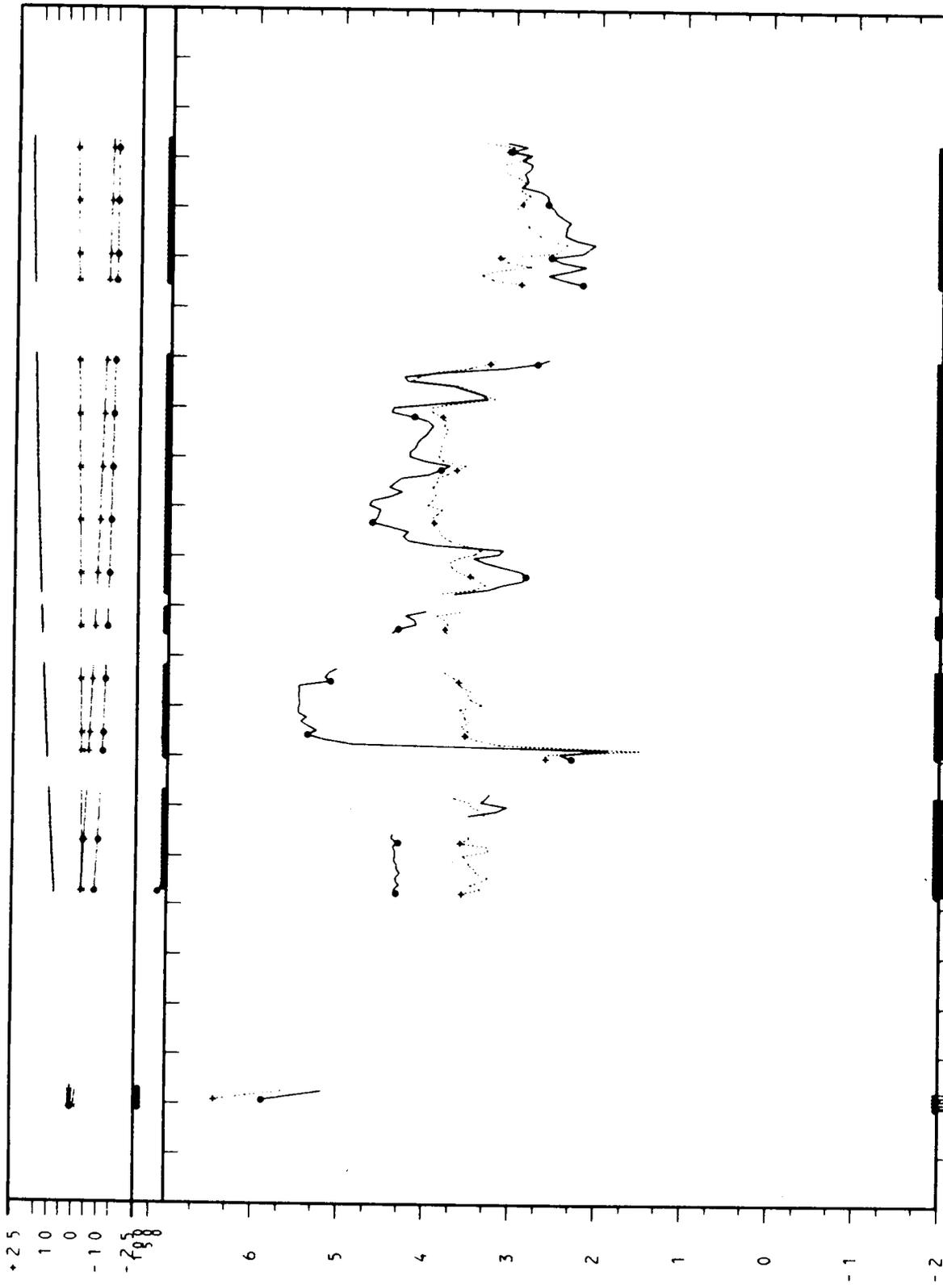




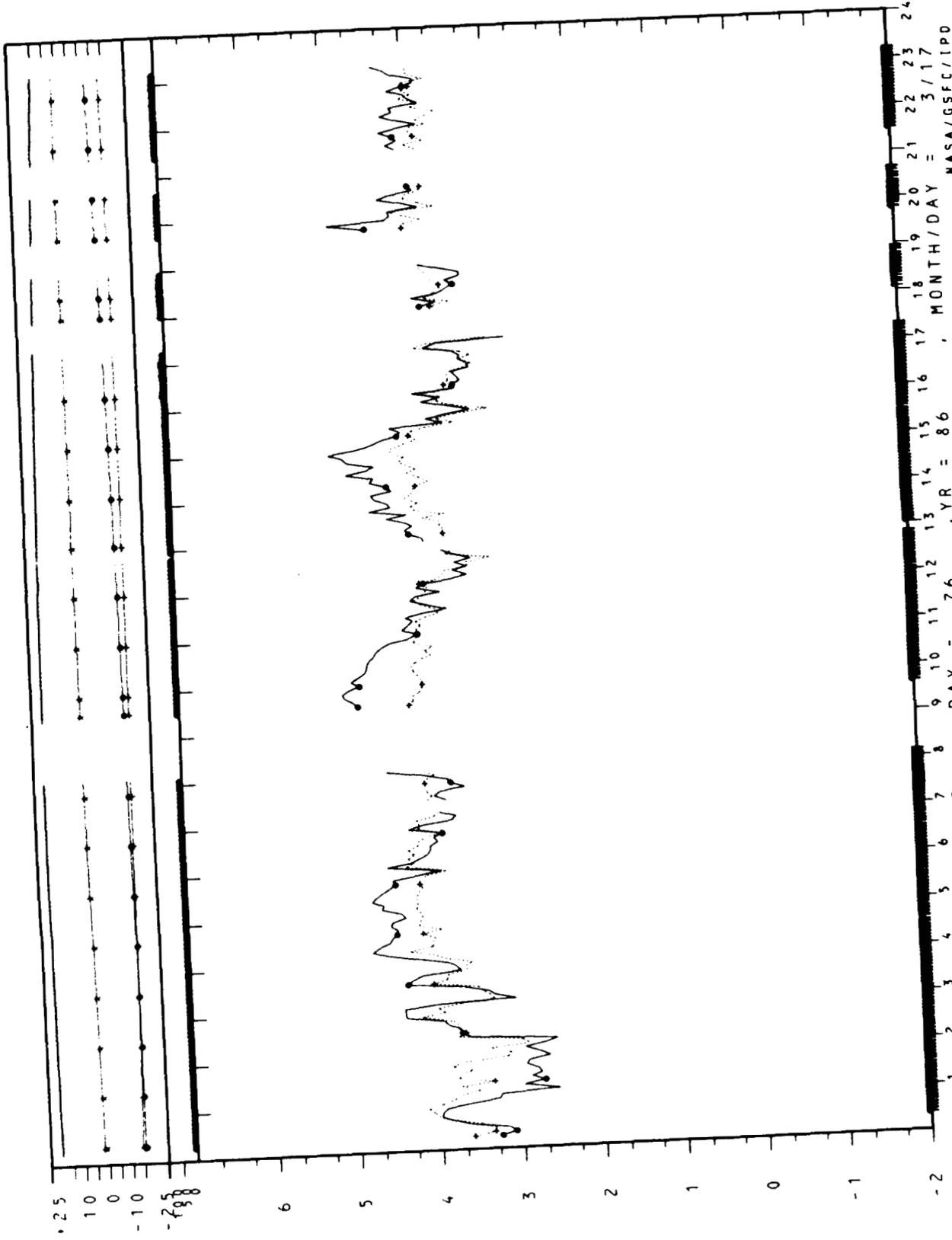
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 NASA/GSFC/IPD





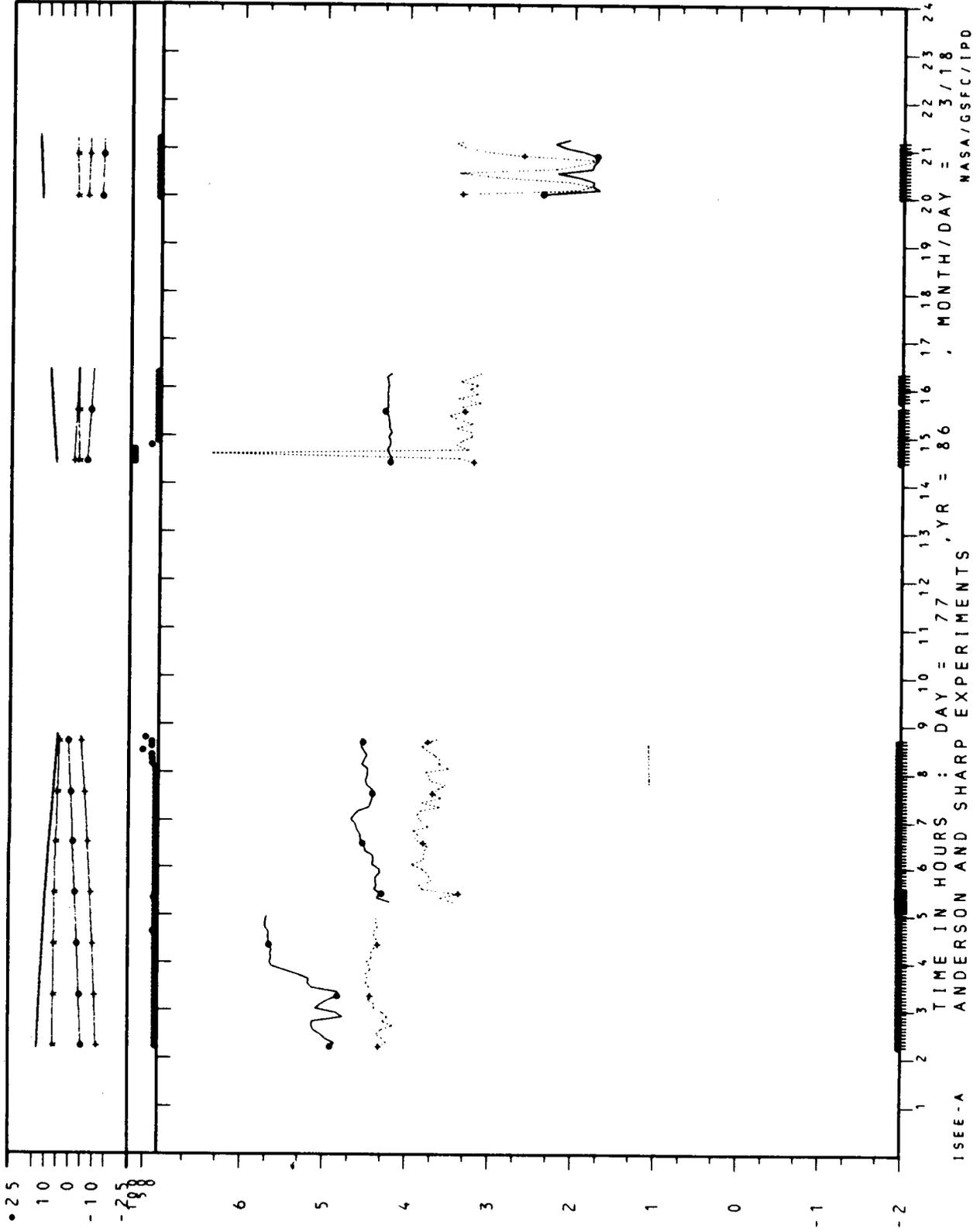


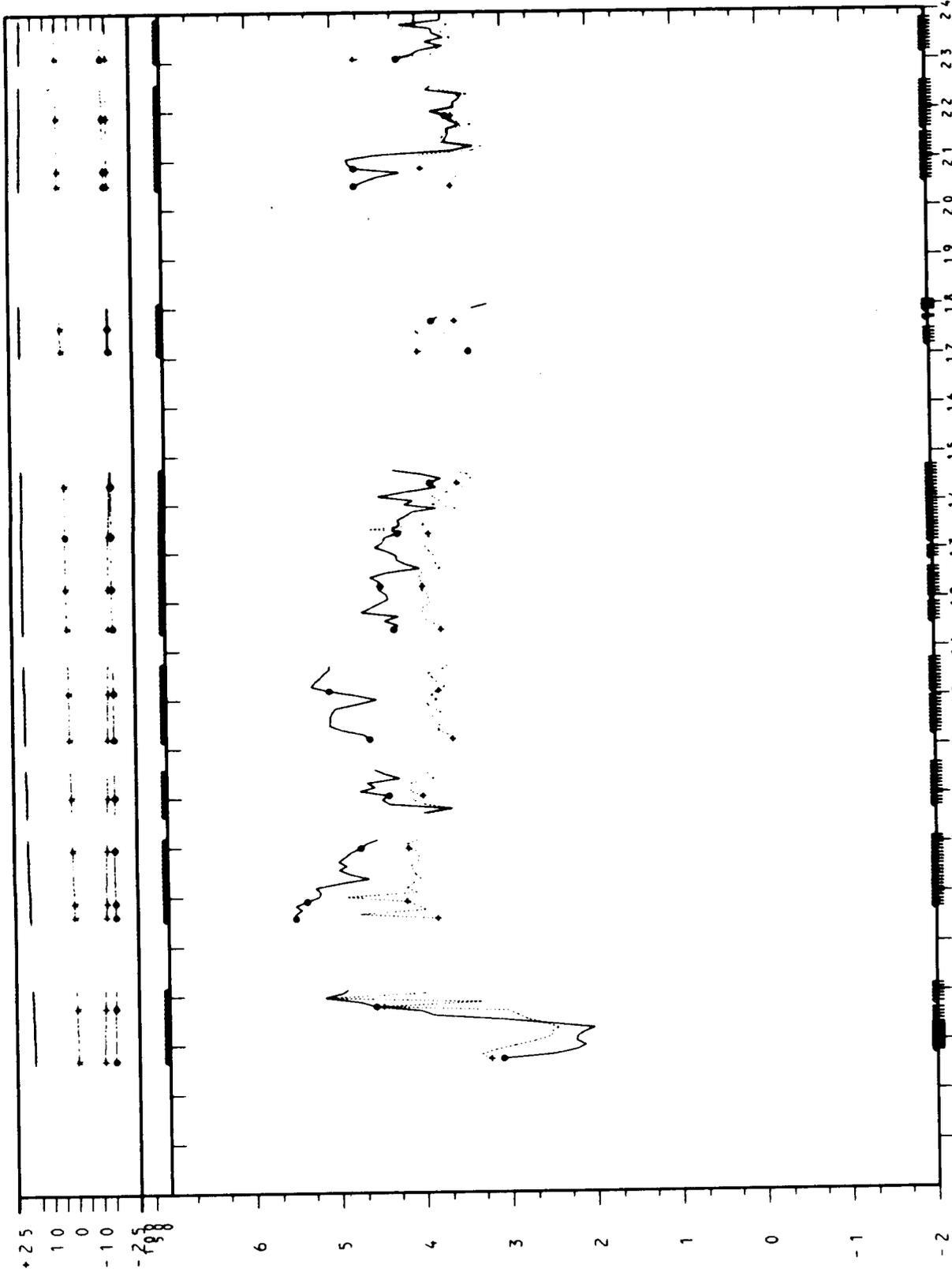
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 NASA/GSFC/IPD



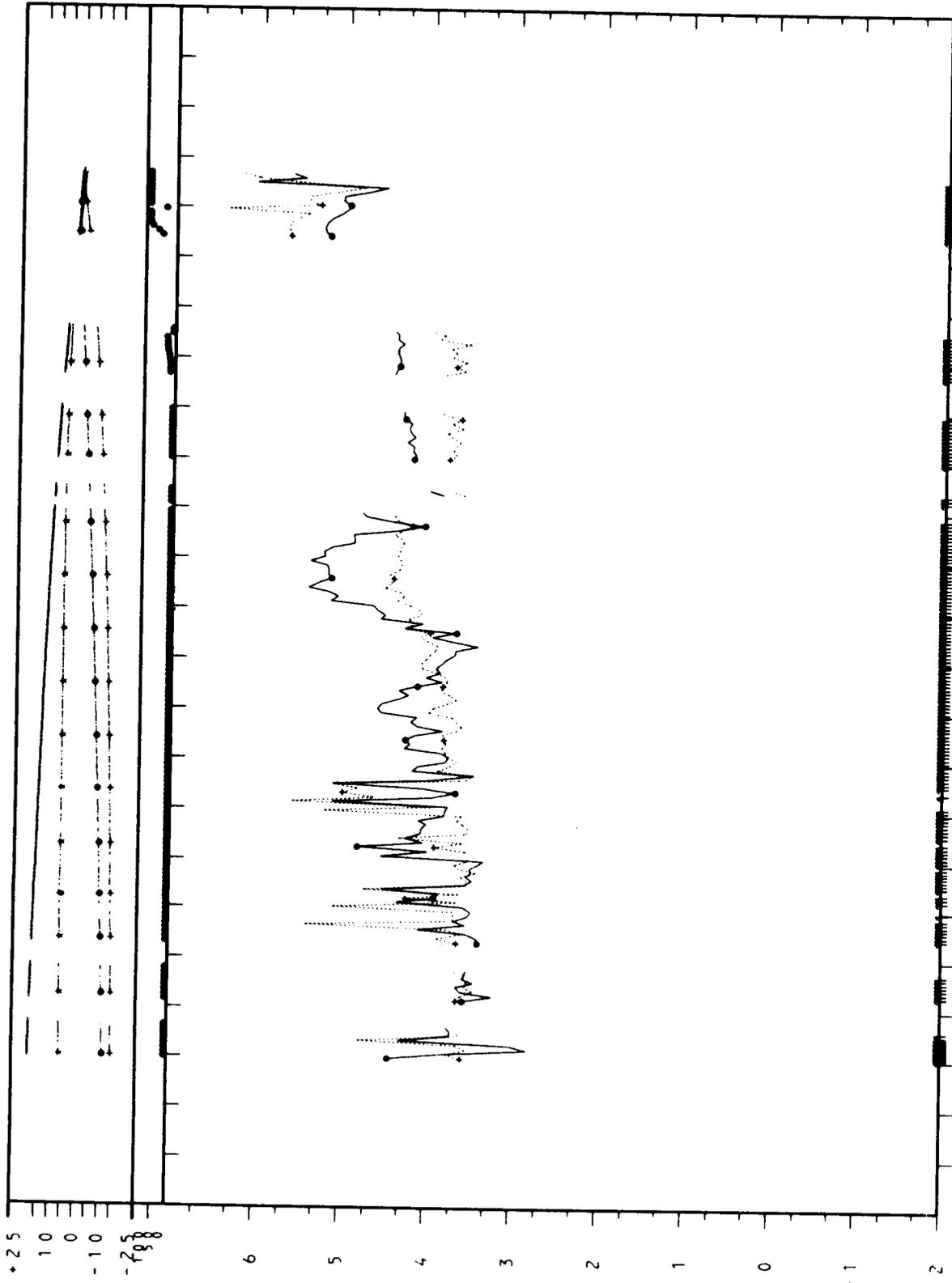
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 NASA/GSFC/LPO

ISEE - A

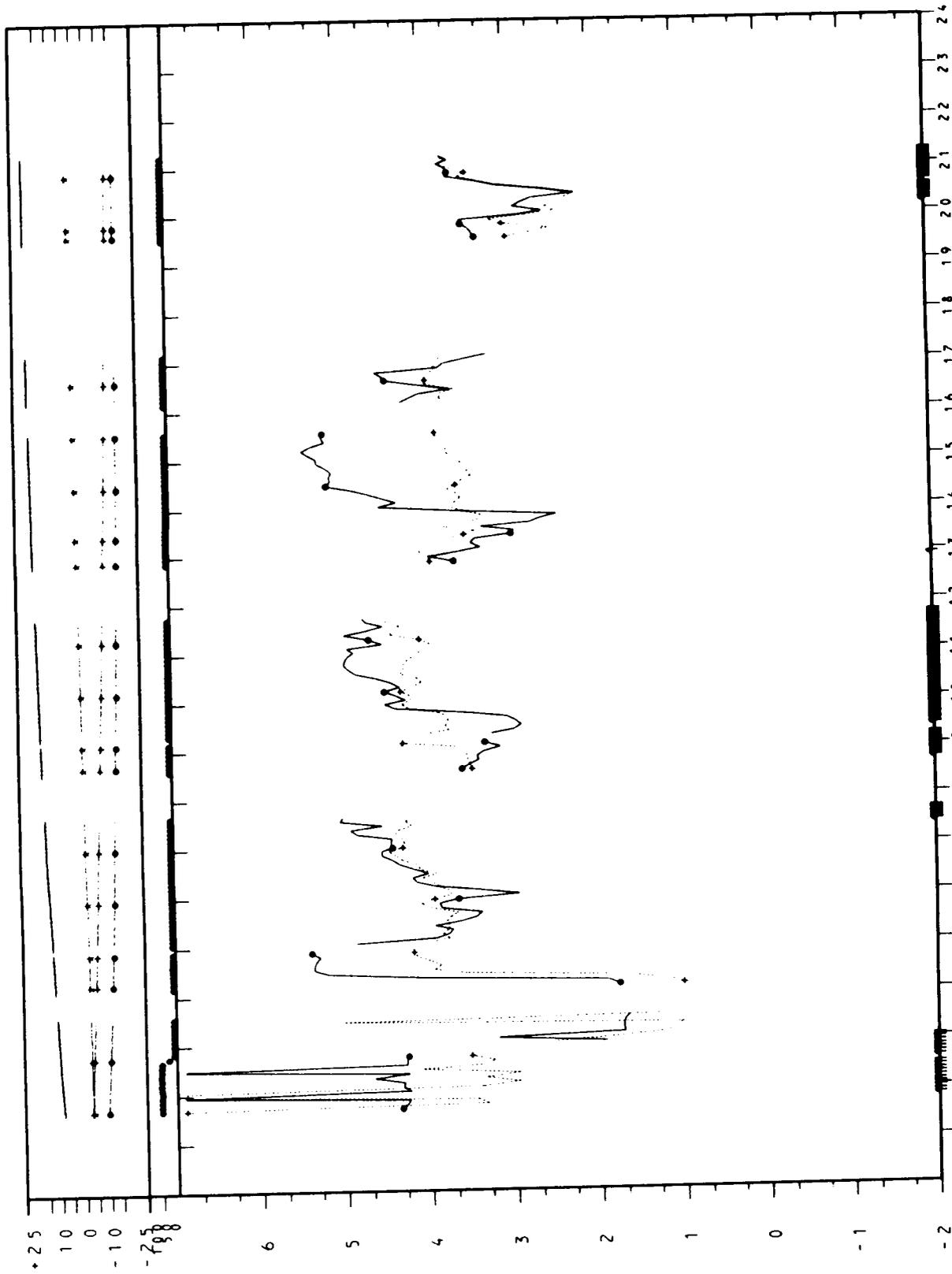




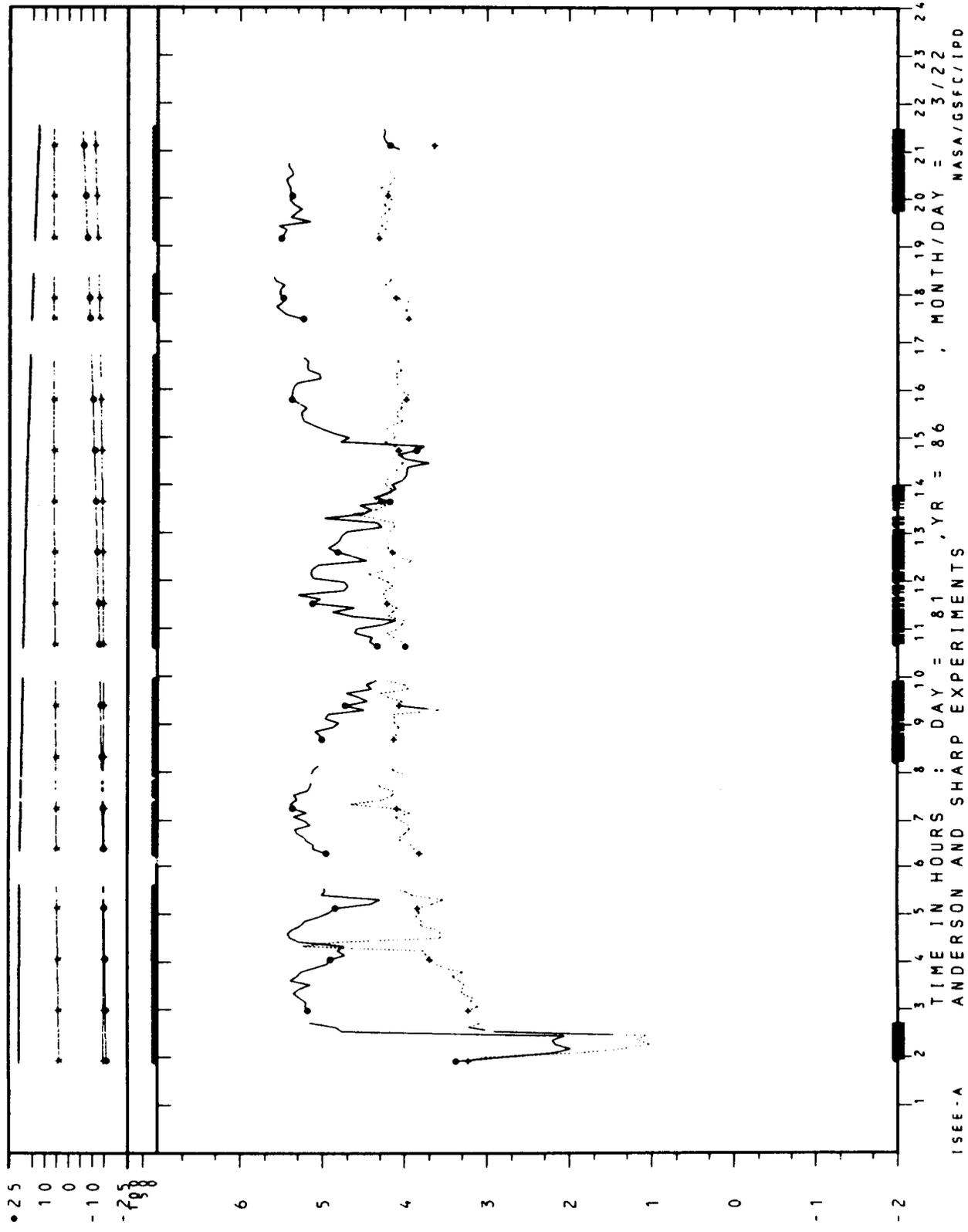
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 NASA/GSFC/IPD

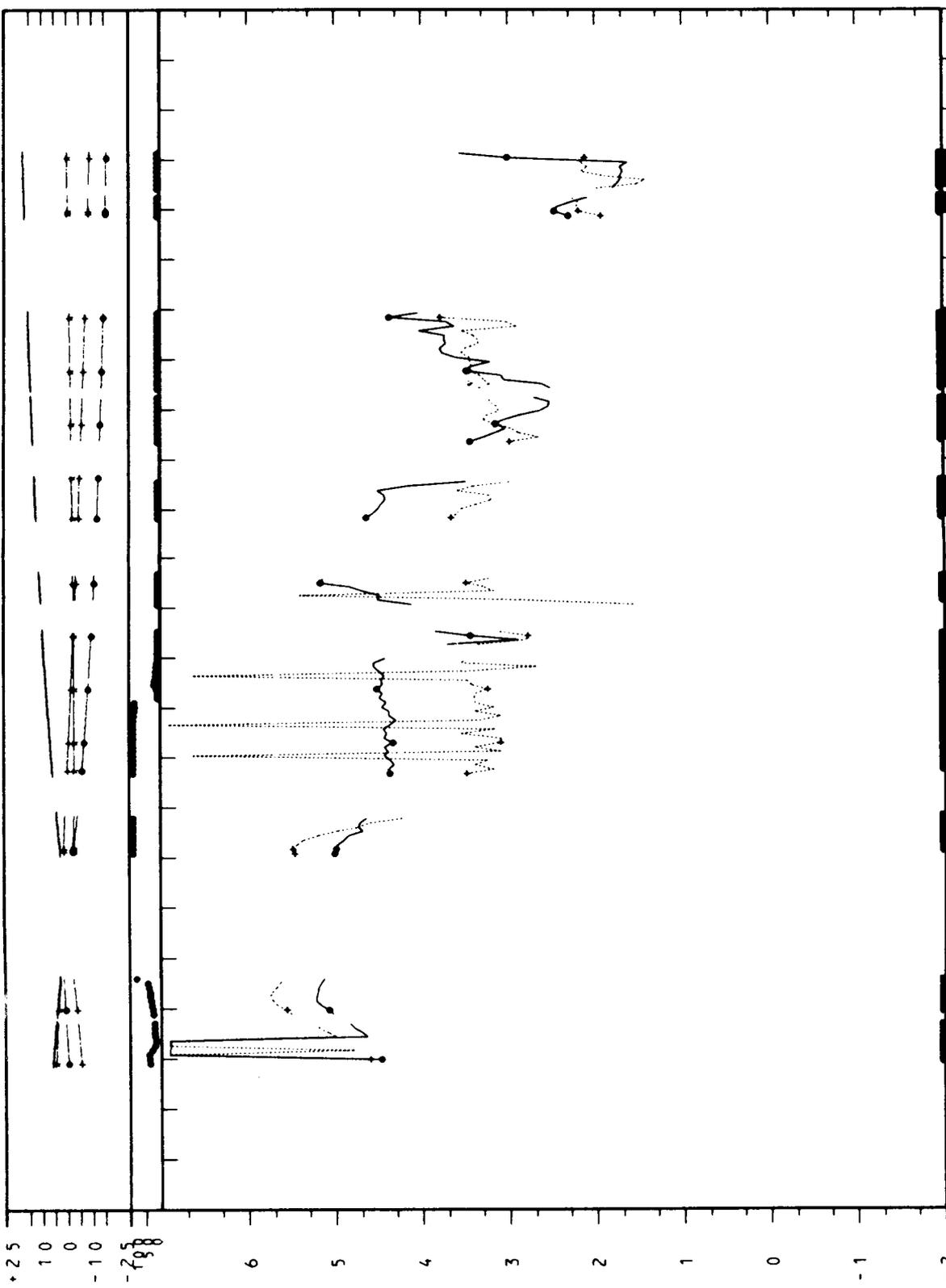


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 MONTH/DAY = 3/20
 NASA/GSFC/IPO

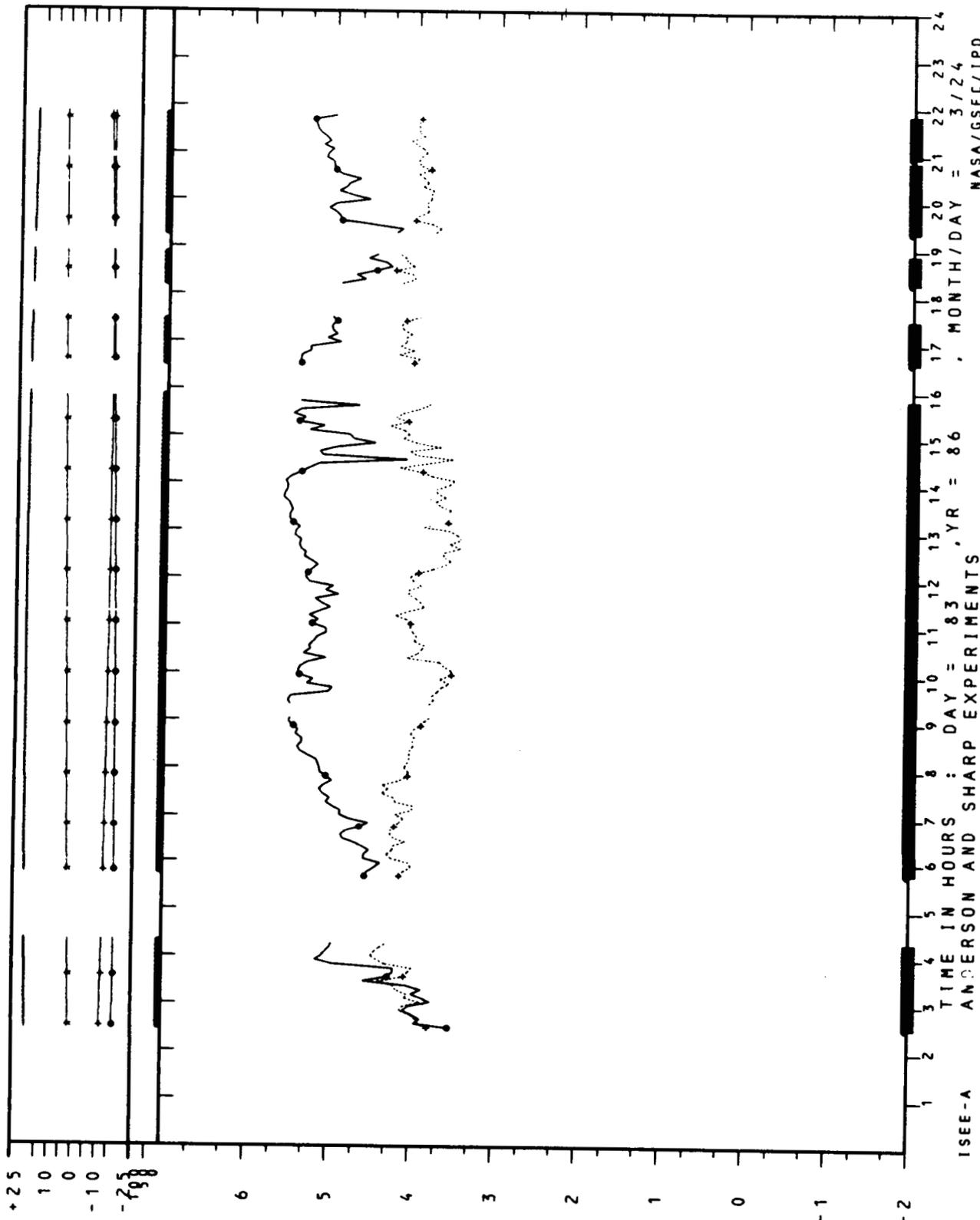


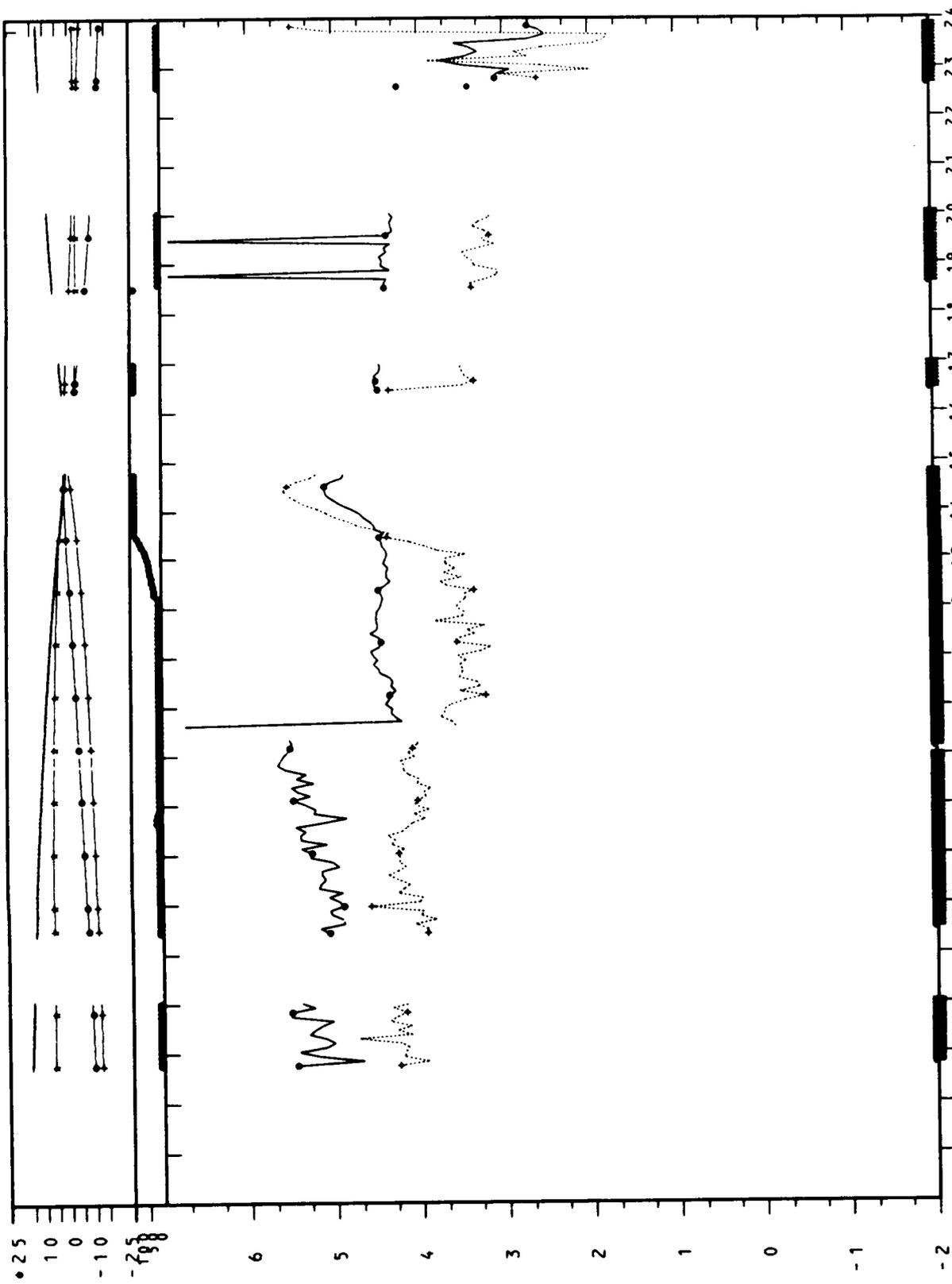
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 MONTH/DAY = 3/21
 NASA/GSFC/IPD



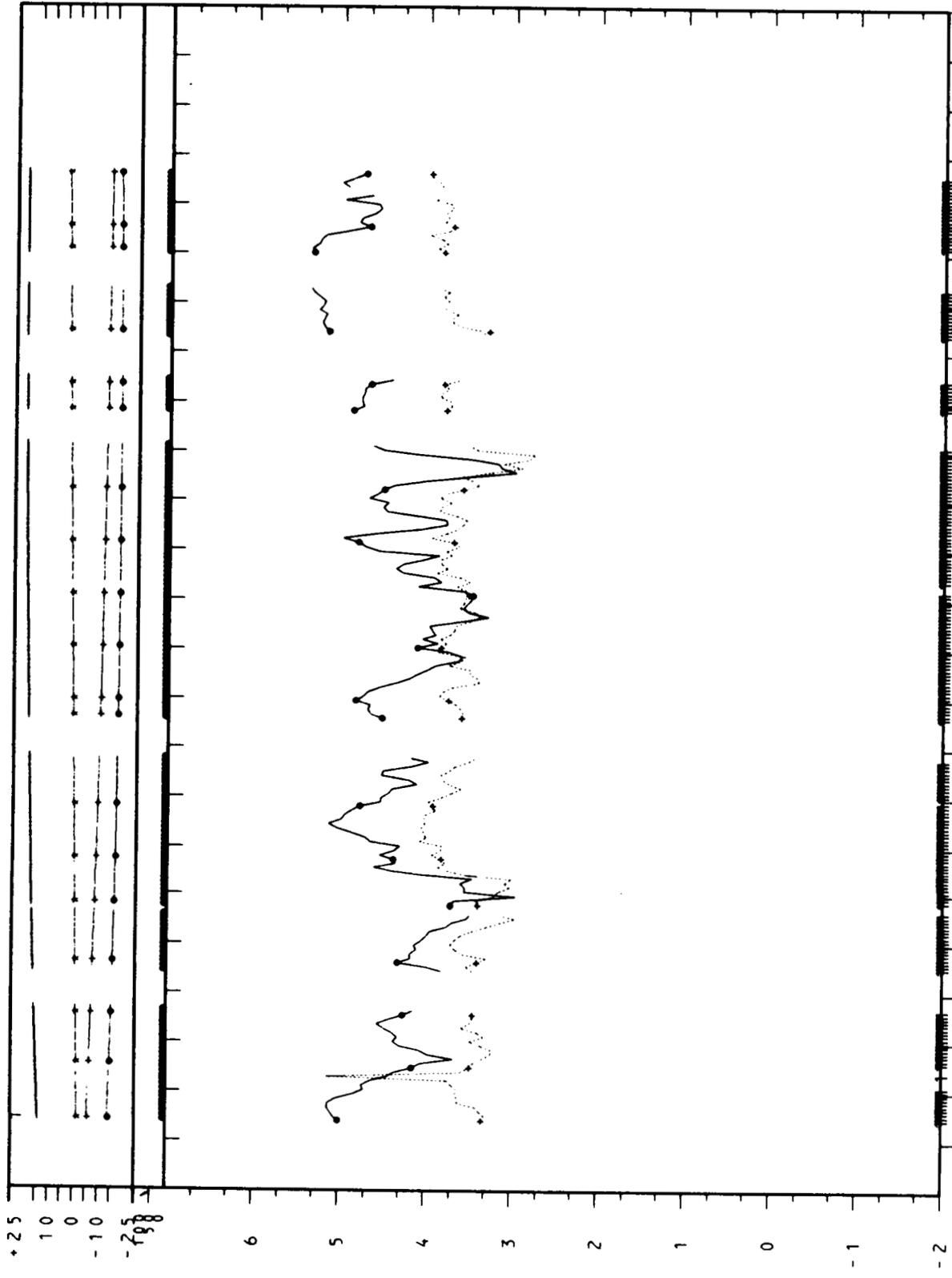


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 ISEE-A
 NASA/GSFC/IPD

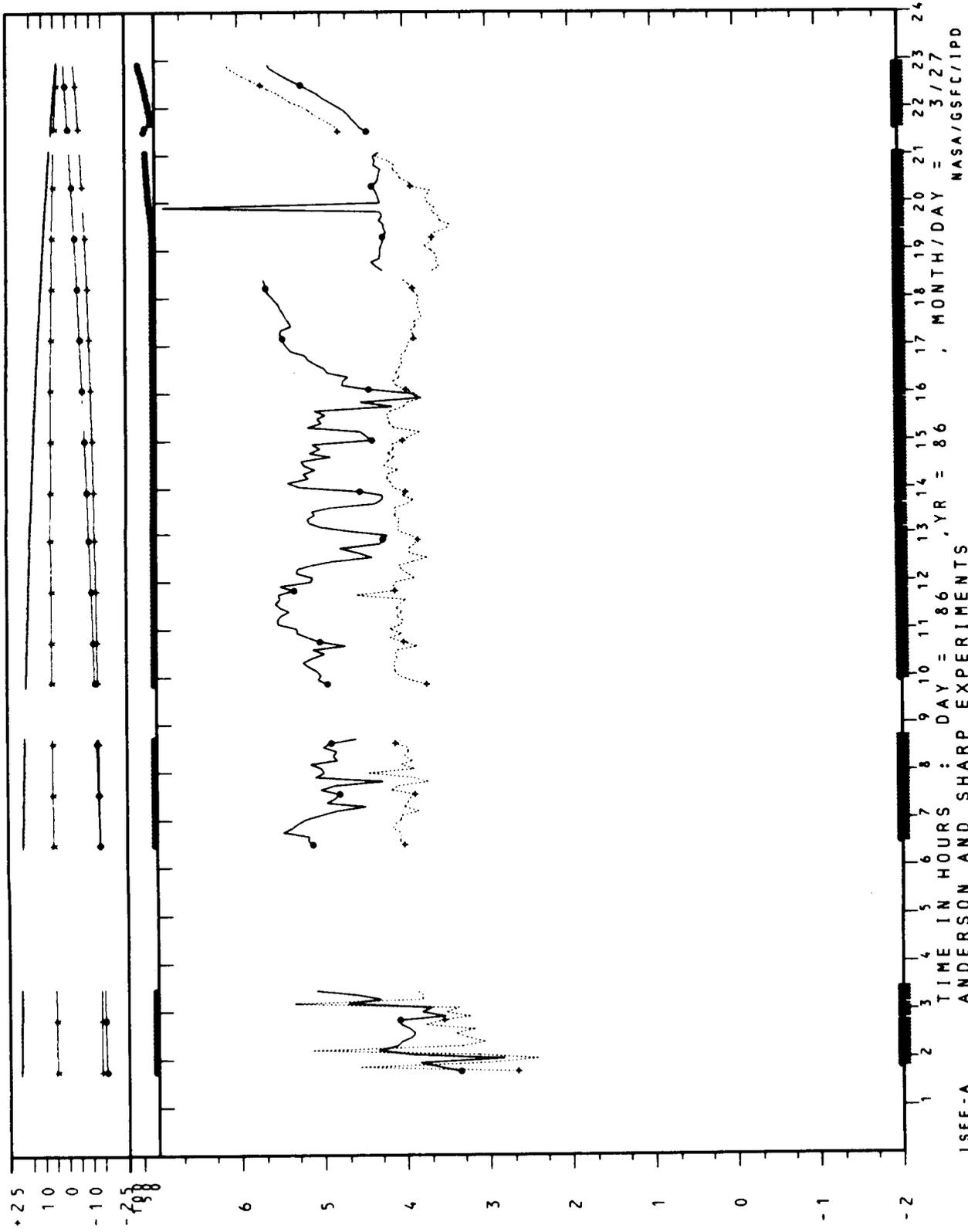


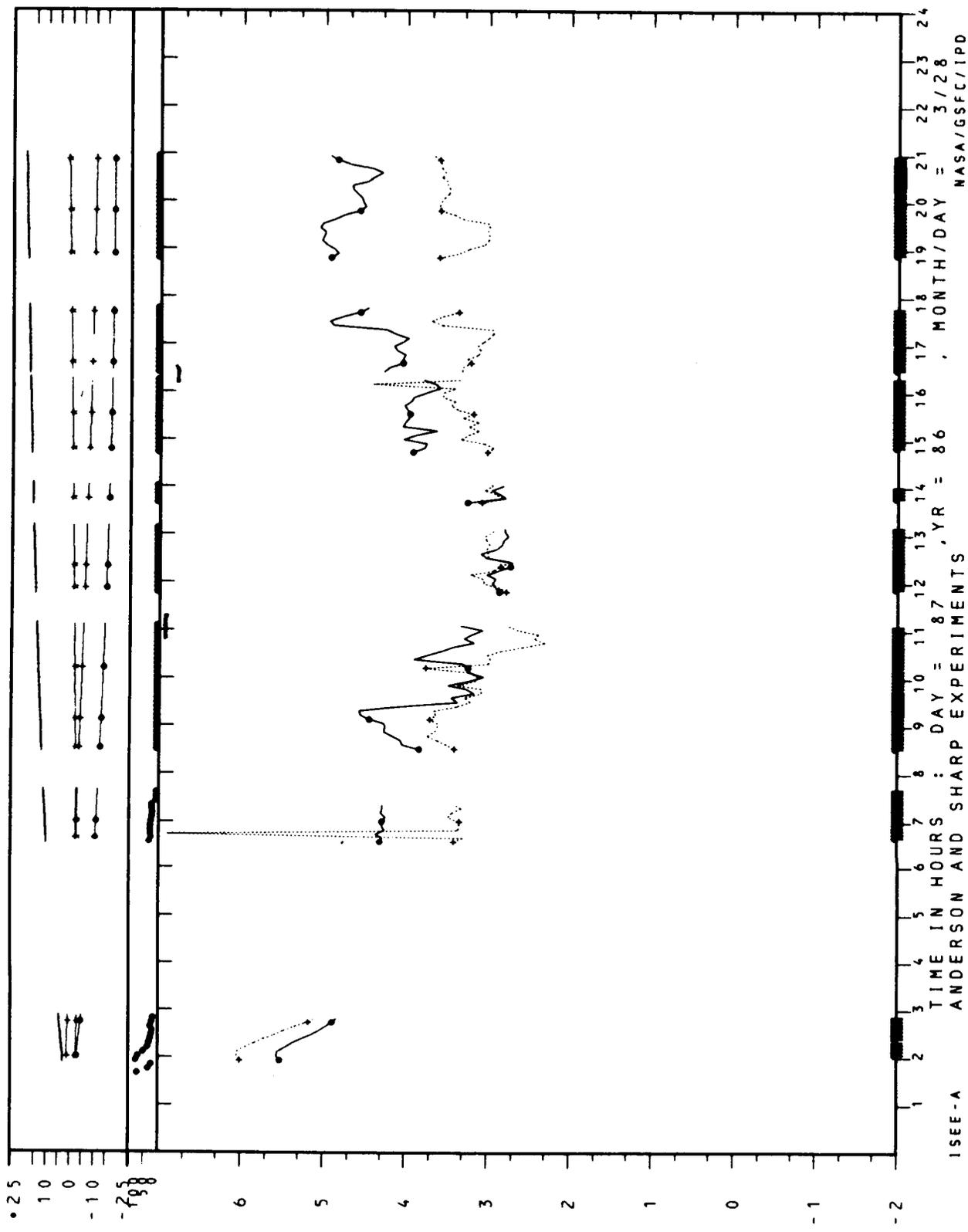


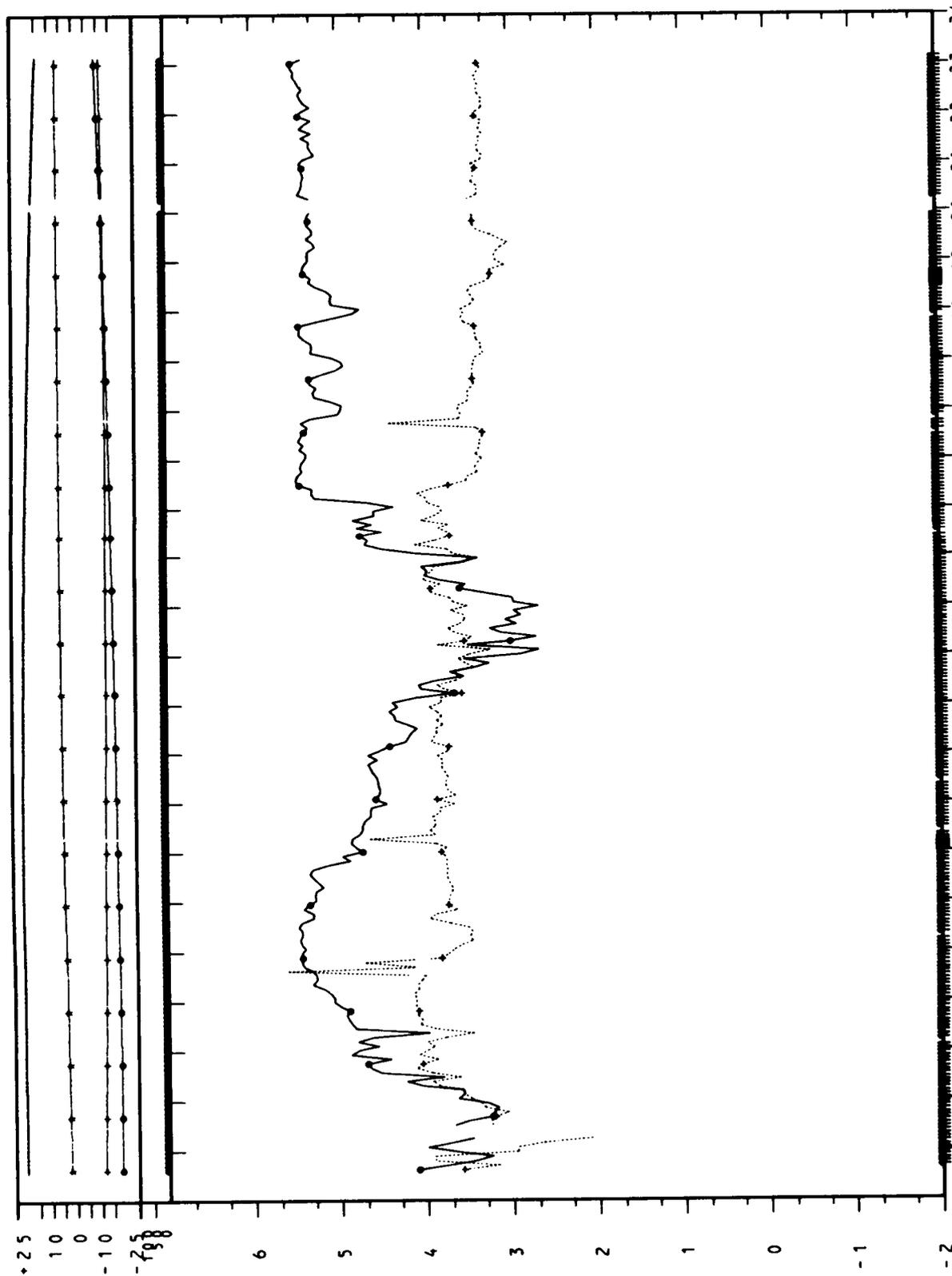
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 NASA/GSFC/IPD



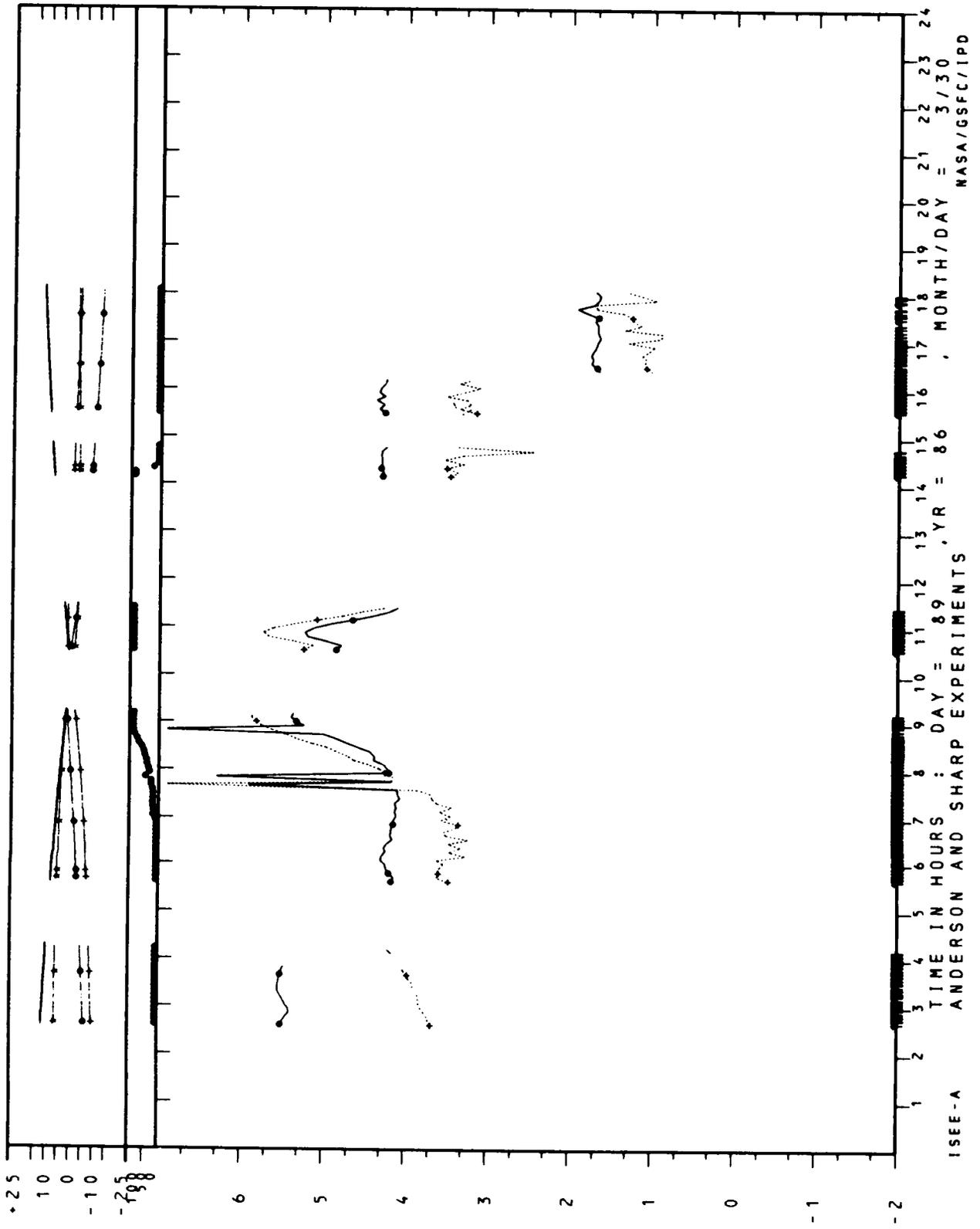
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 DAY = 85 , MONTH/DAY = 3/26
 NASA/GSFC/IPD

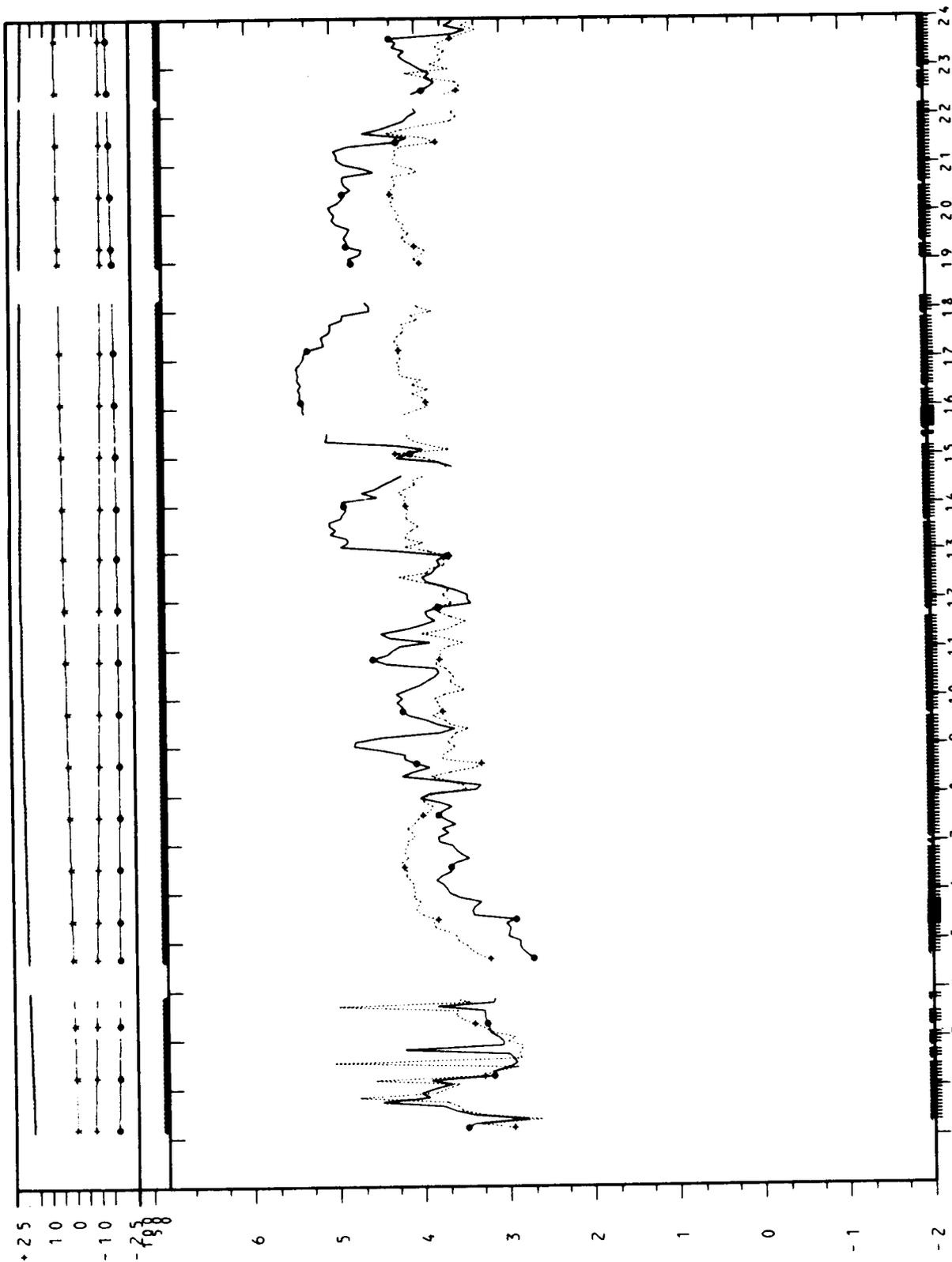




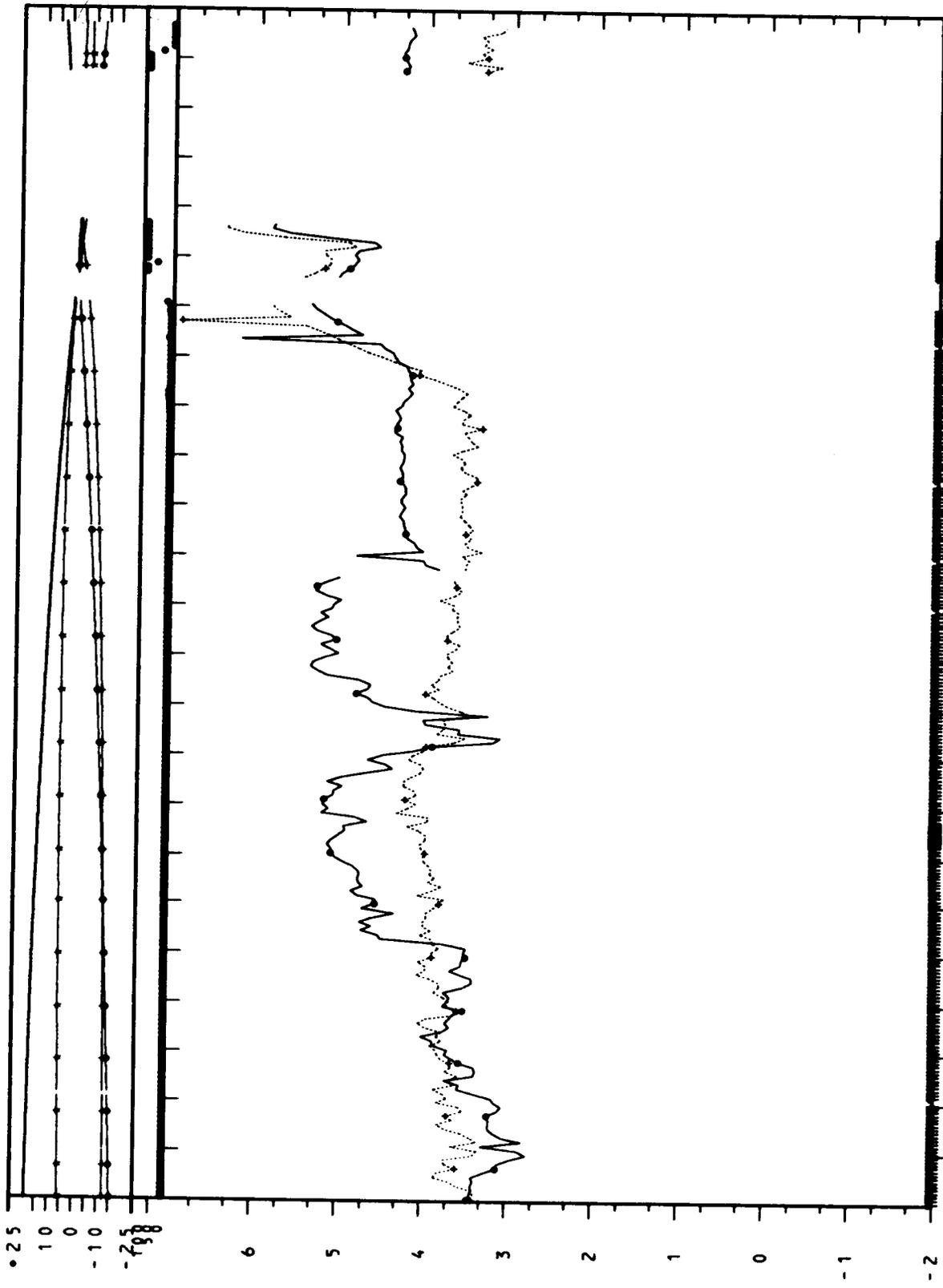


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 NASA/GSFC/IPD

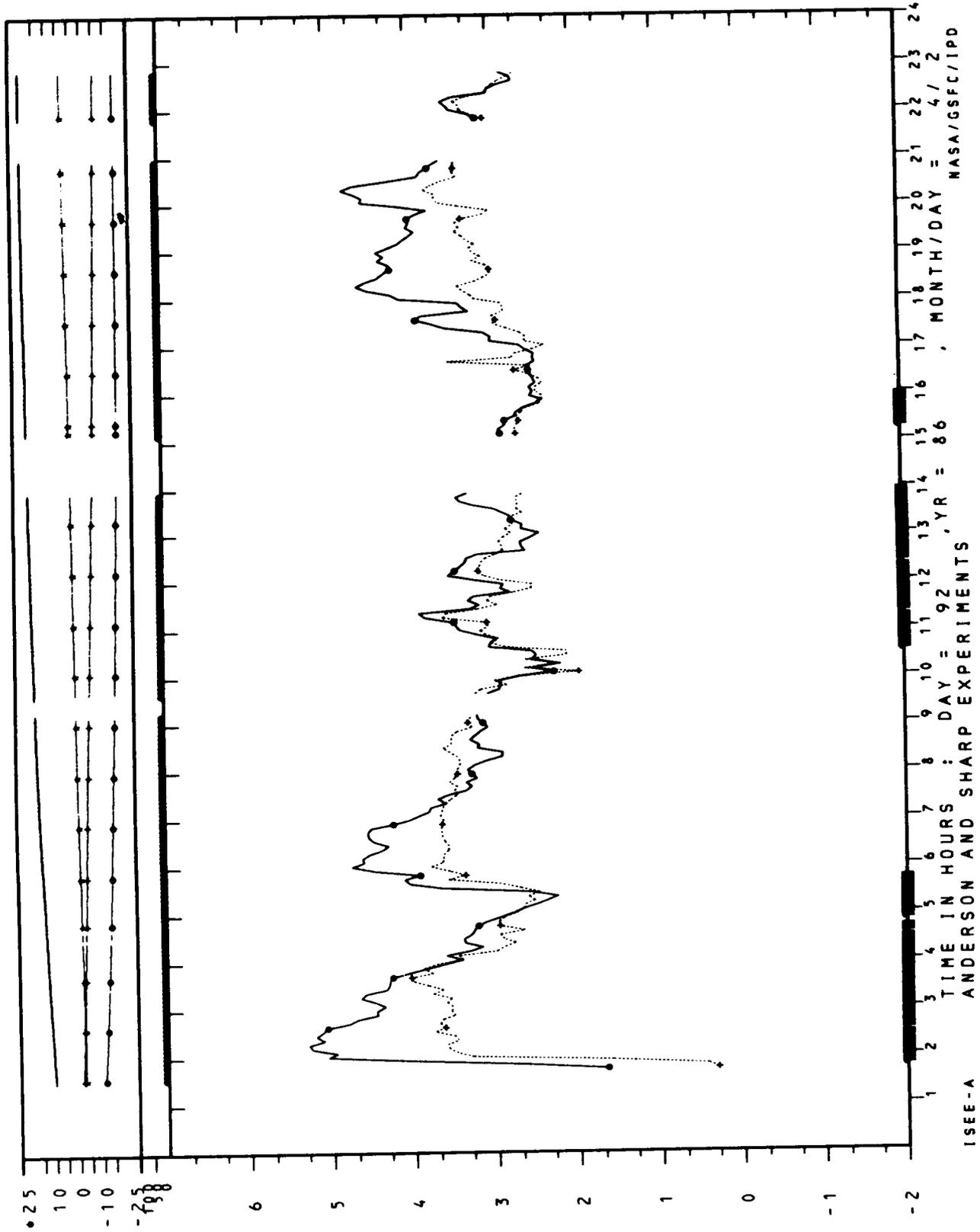


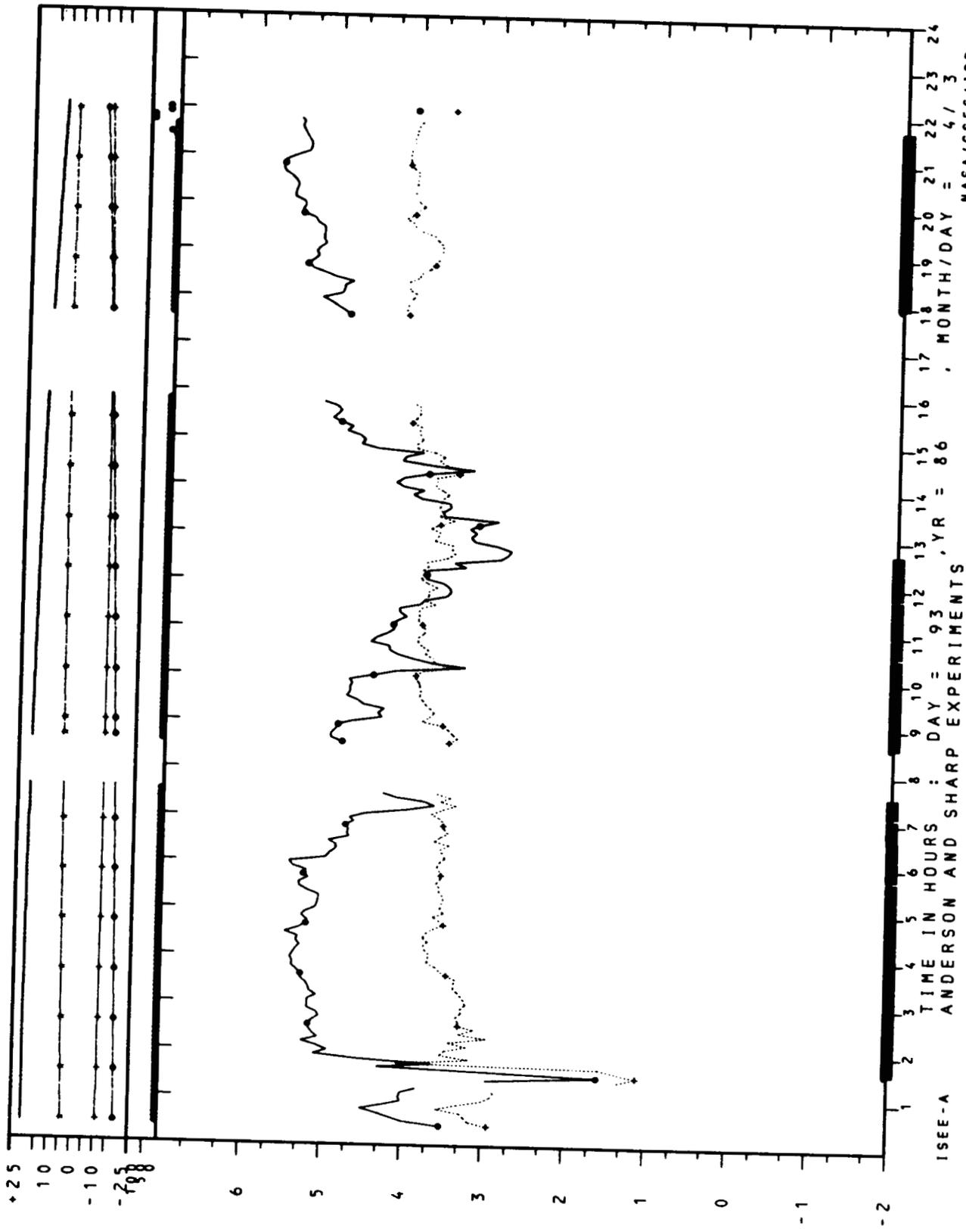


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 NASA/GSFC/IPD

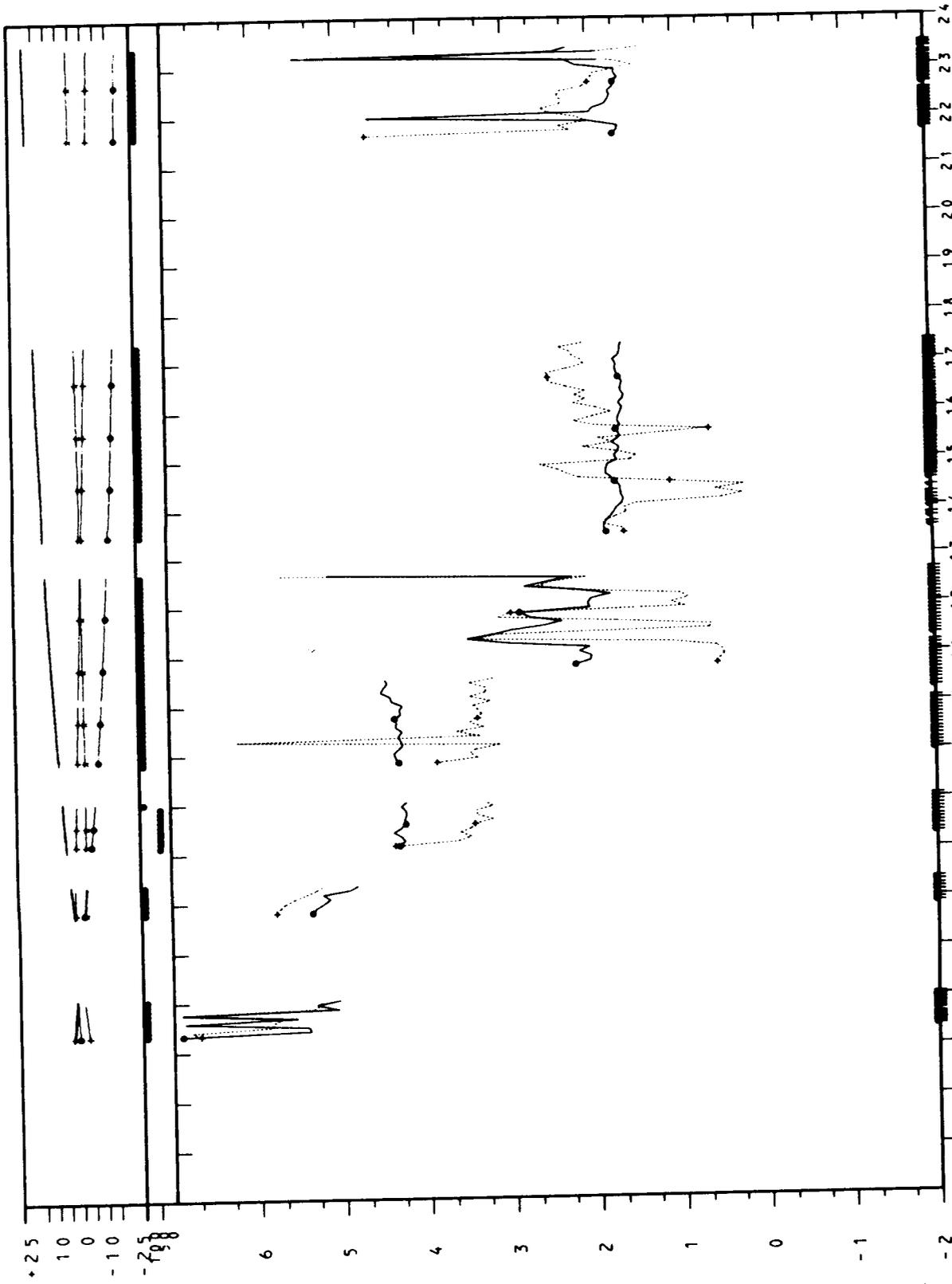


I SEE - A
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 NASA/GSFC/IPD

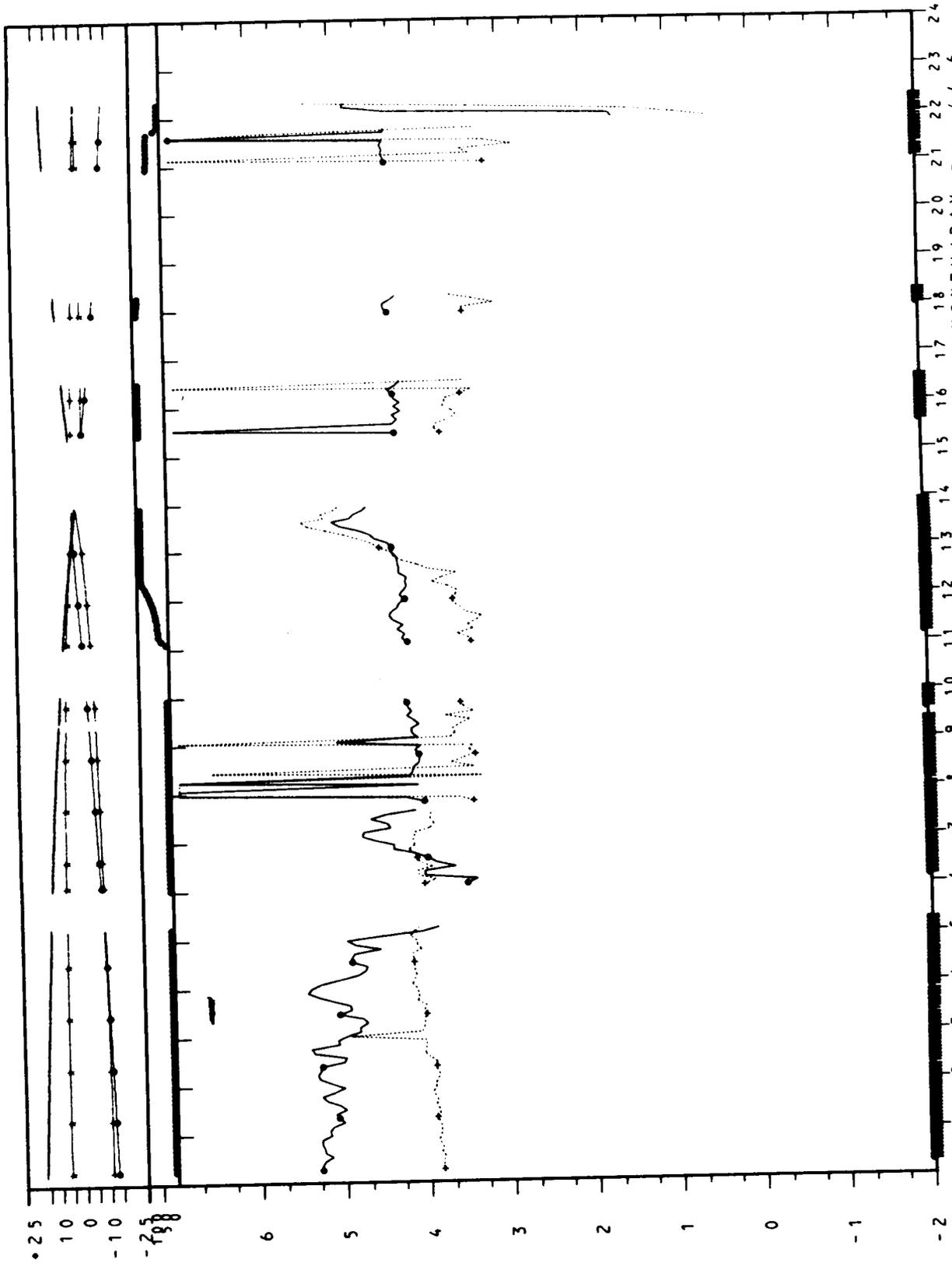




ISEE-A
 TIME IN HOURS : DAY = 93 , YR = 86 , MONTH/DAY = 4 / 3
 NASA/GSFC/IPD



15EE-A
 ANDERSON AND SHARP EXPERIMENTS
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 NASA/GSFC/IPD



NASA/GSFC/IPD

MONTH/DAY = 4/6

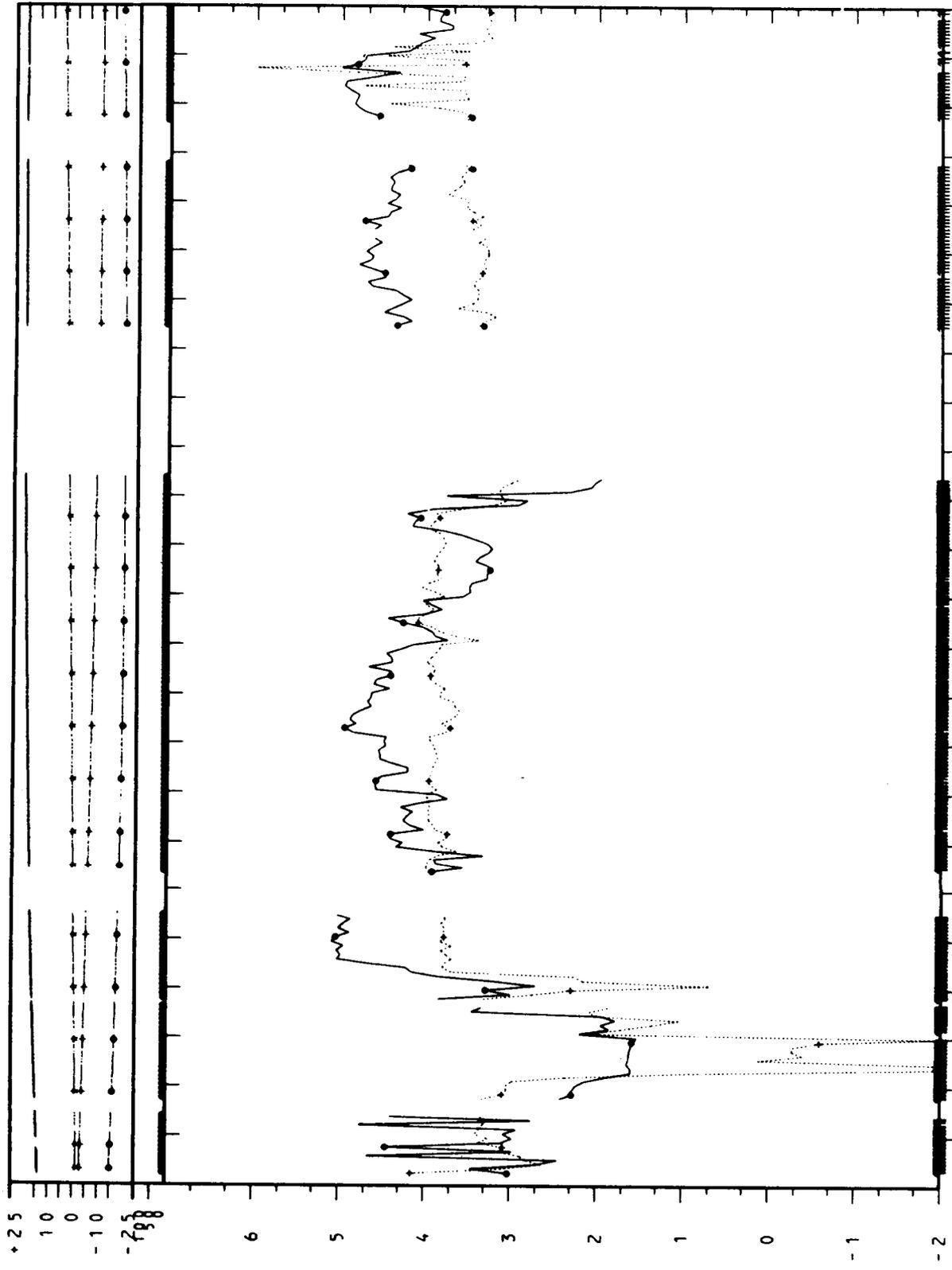
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DAY = 96

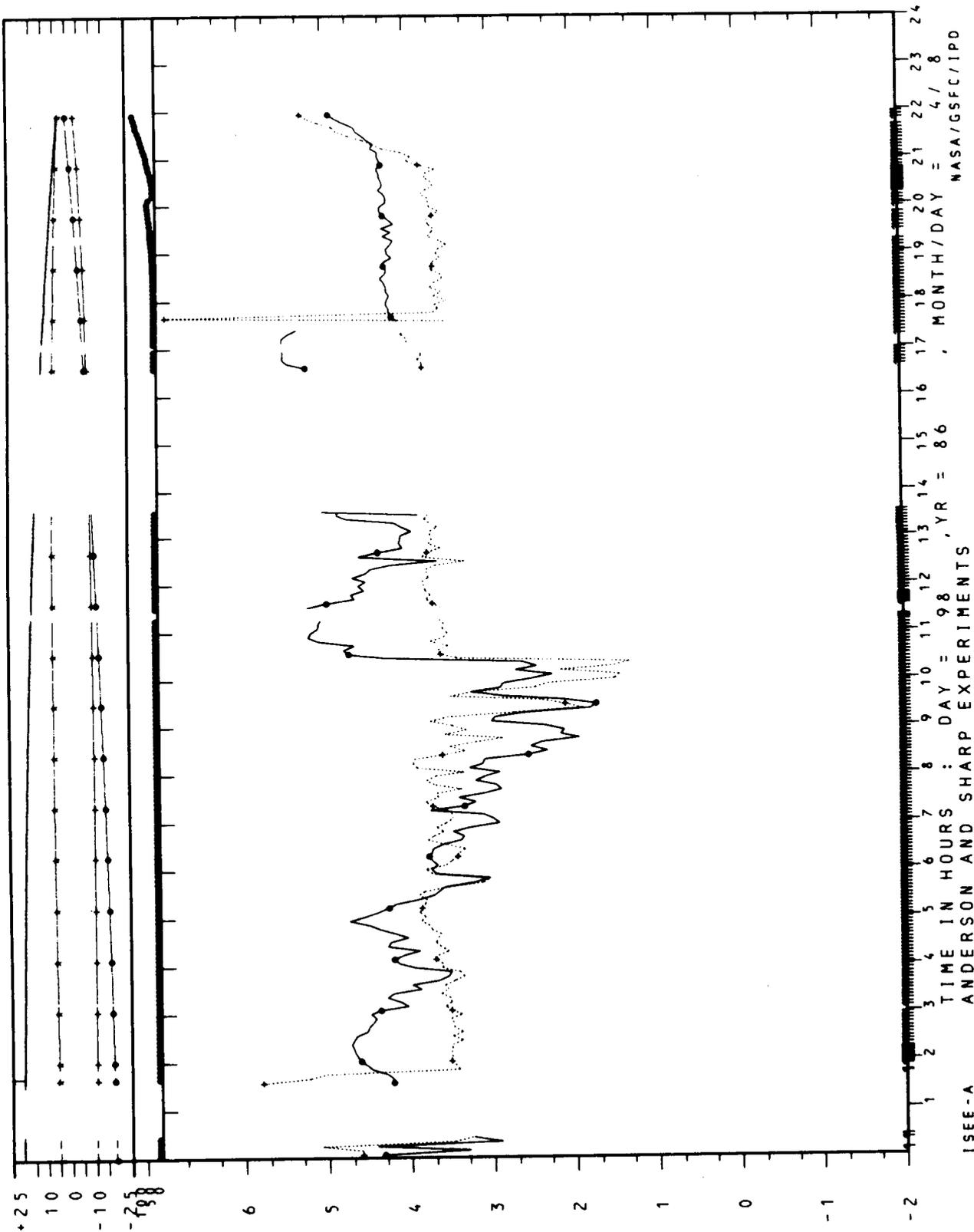
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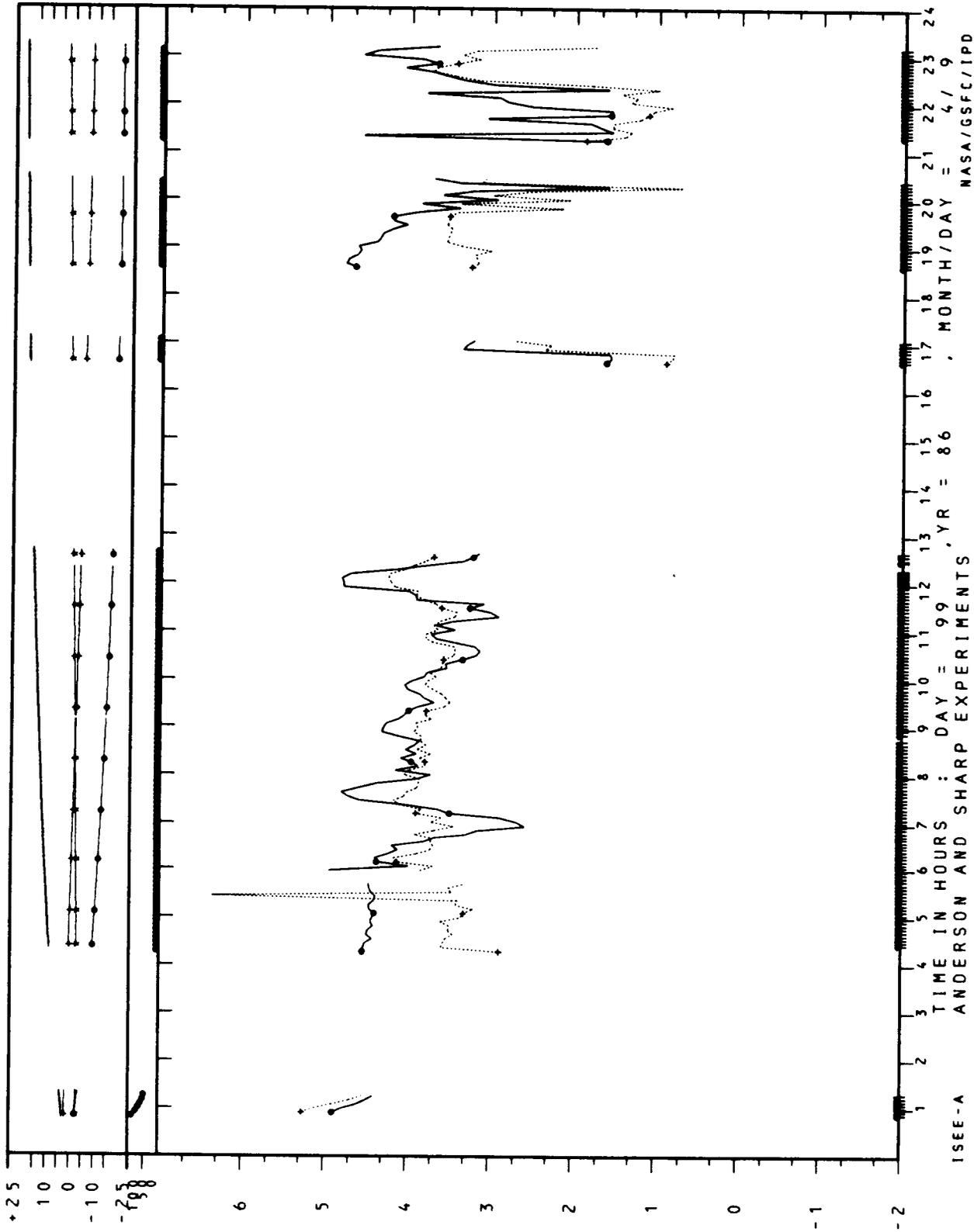
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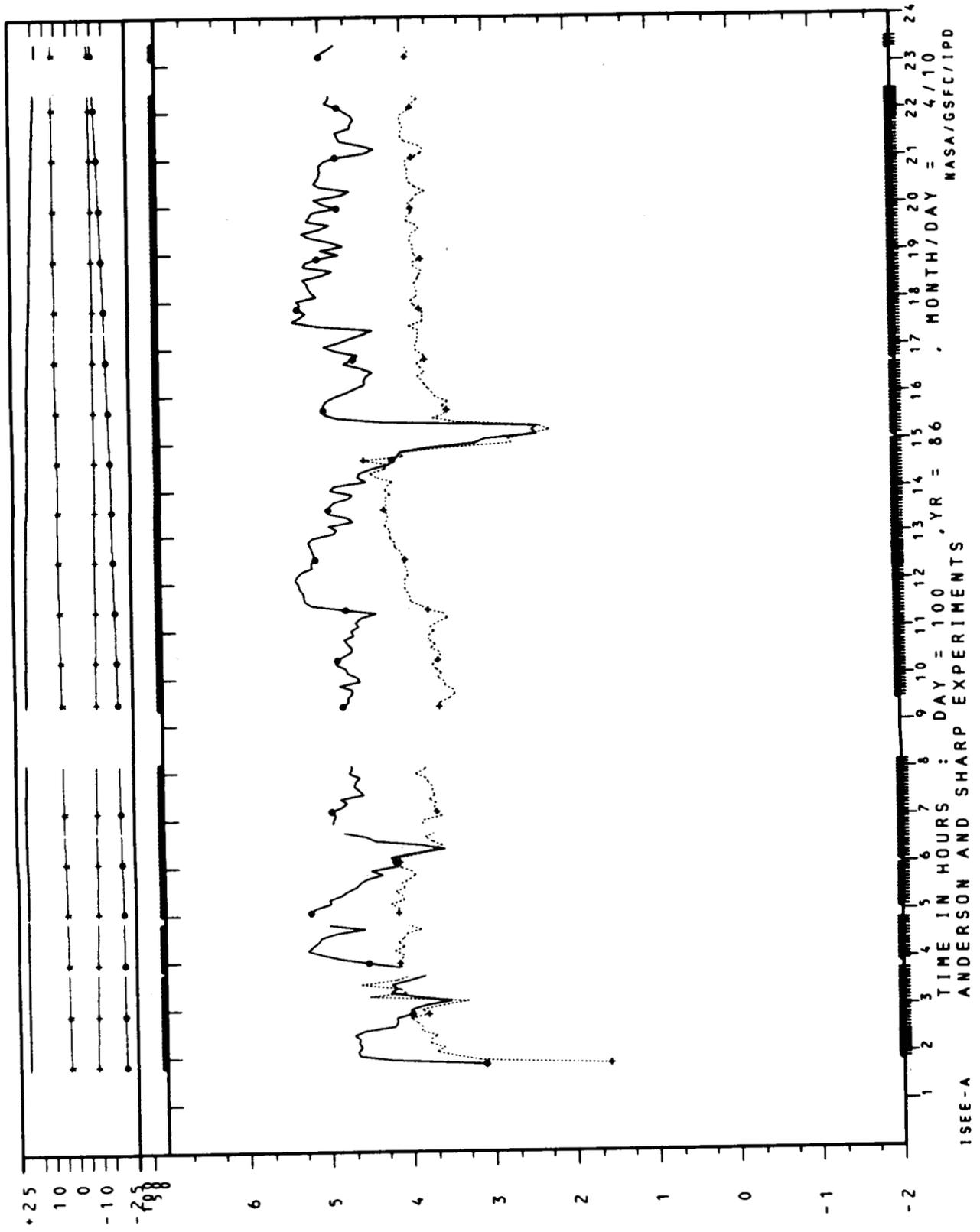
TIME IN HOURS :



ISEE-A
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 TIME IN HOURS : DAY = 97 , YR = 86
 MONTH/DAY = 4 / 7
 NASA/GSFC/IPD







ISEE-A

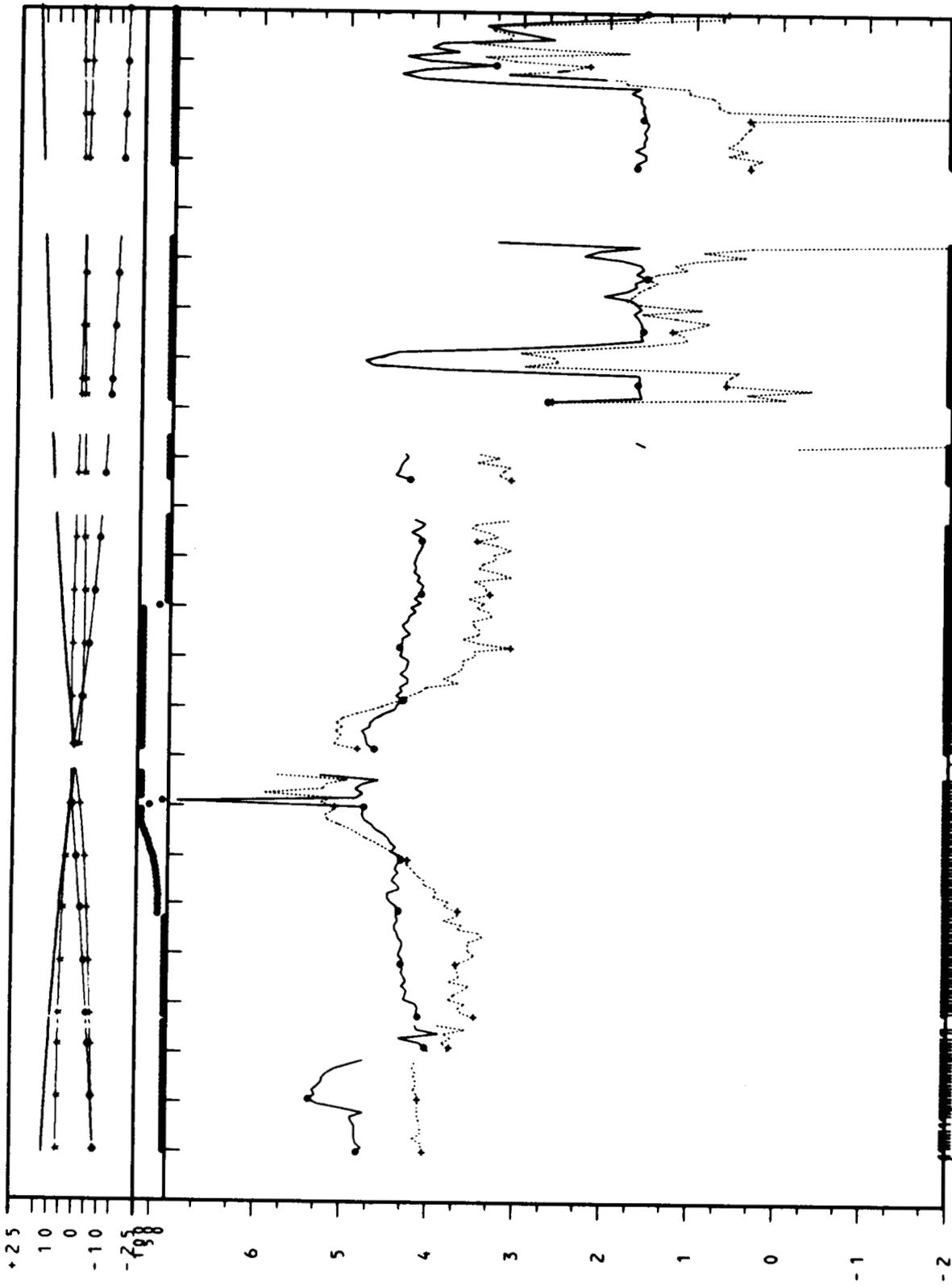
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DAY = 100

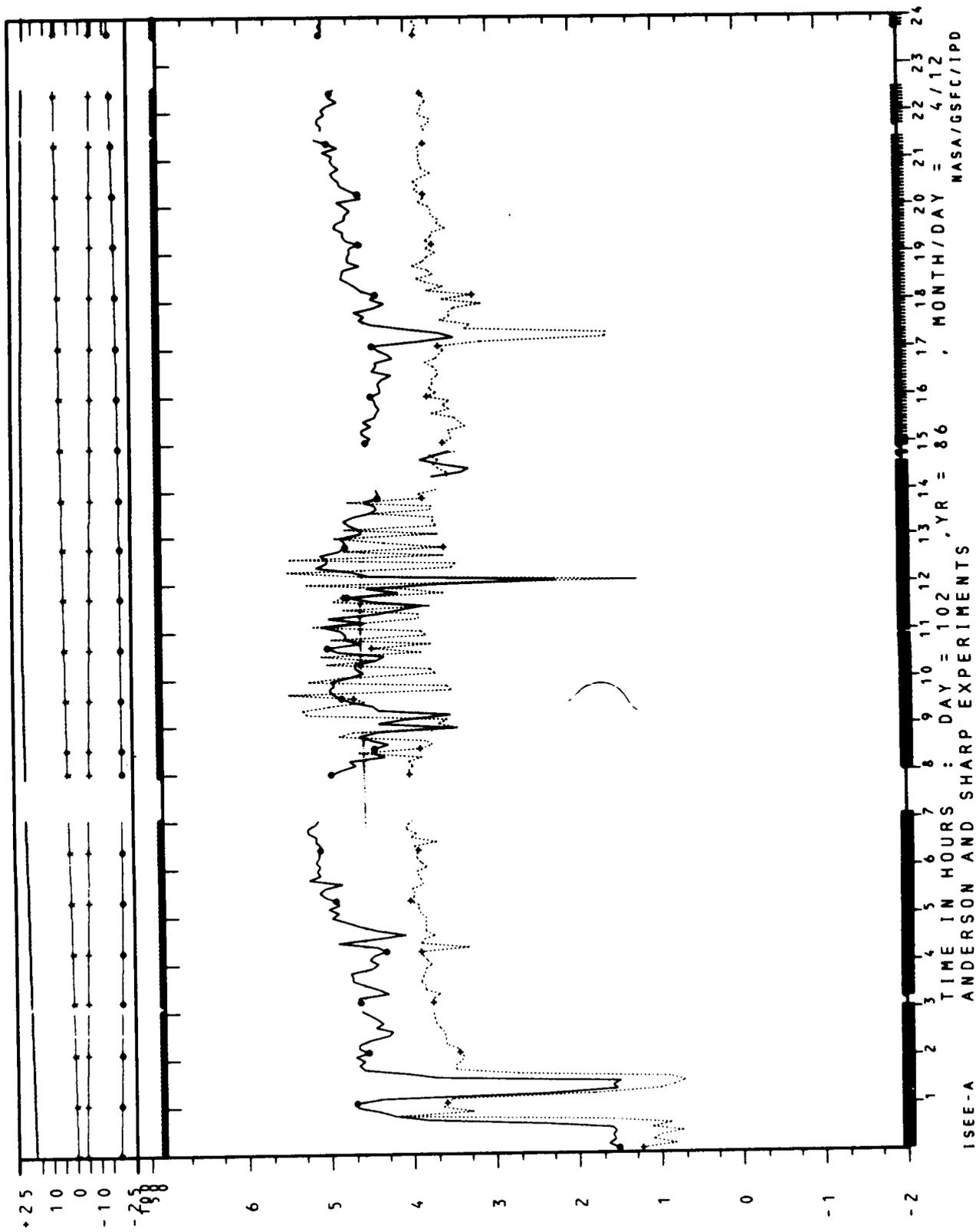
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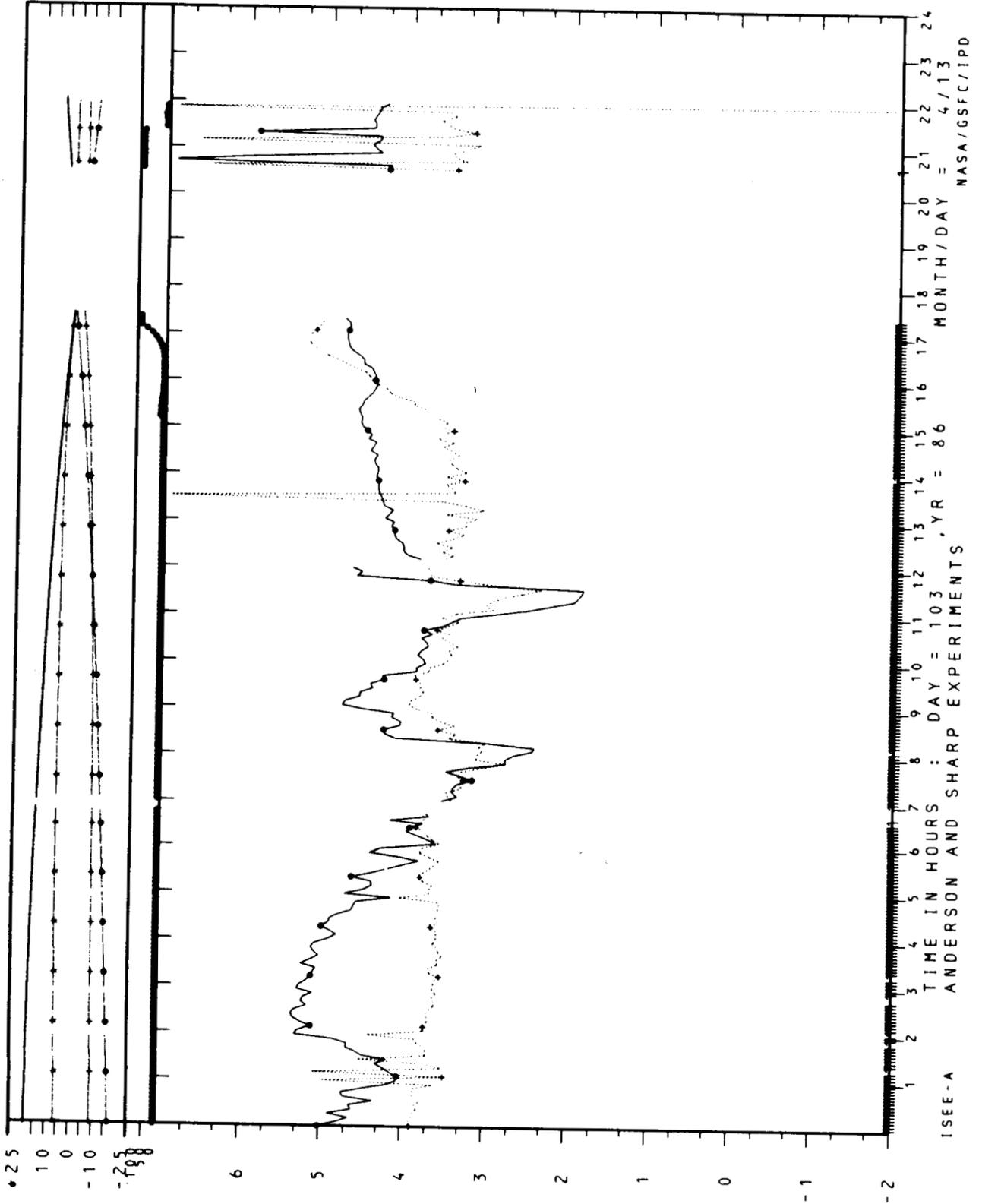
MONTH/DAY = 4/10

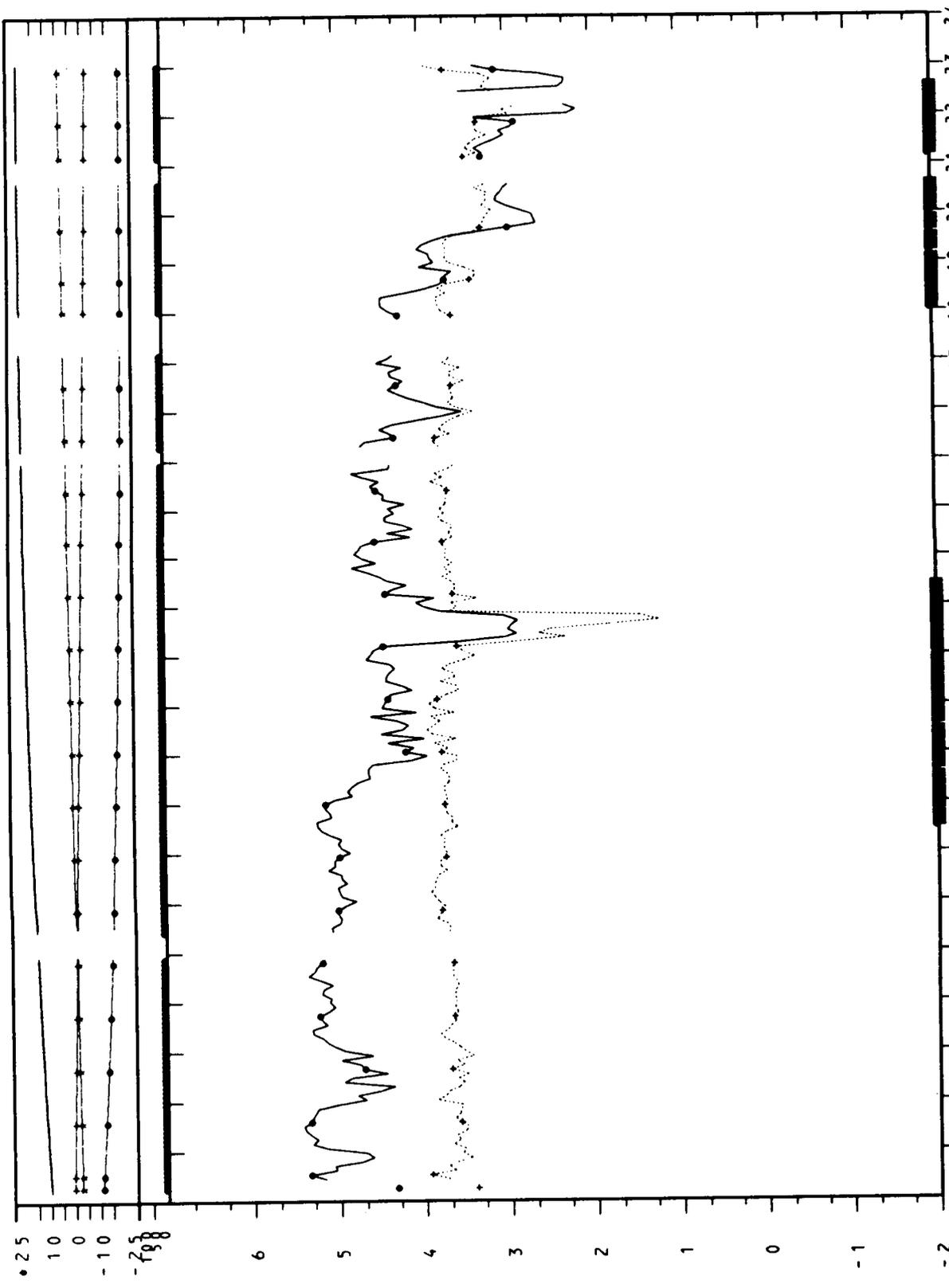
NASA/GSFC/IPD



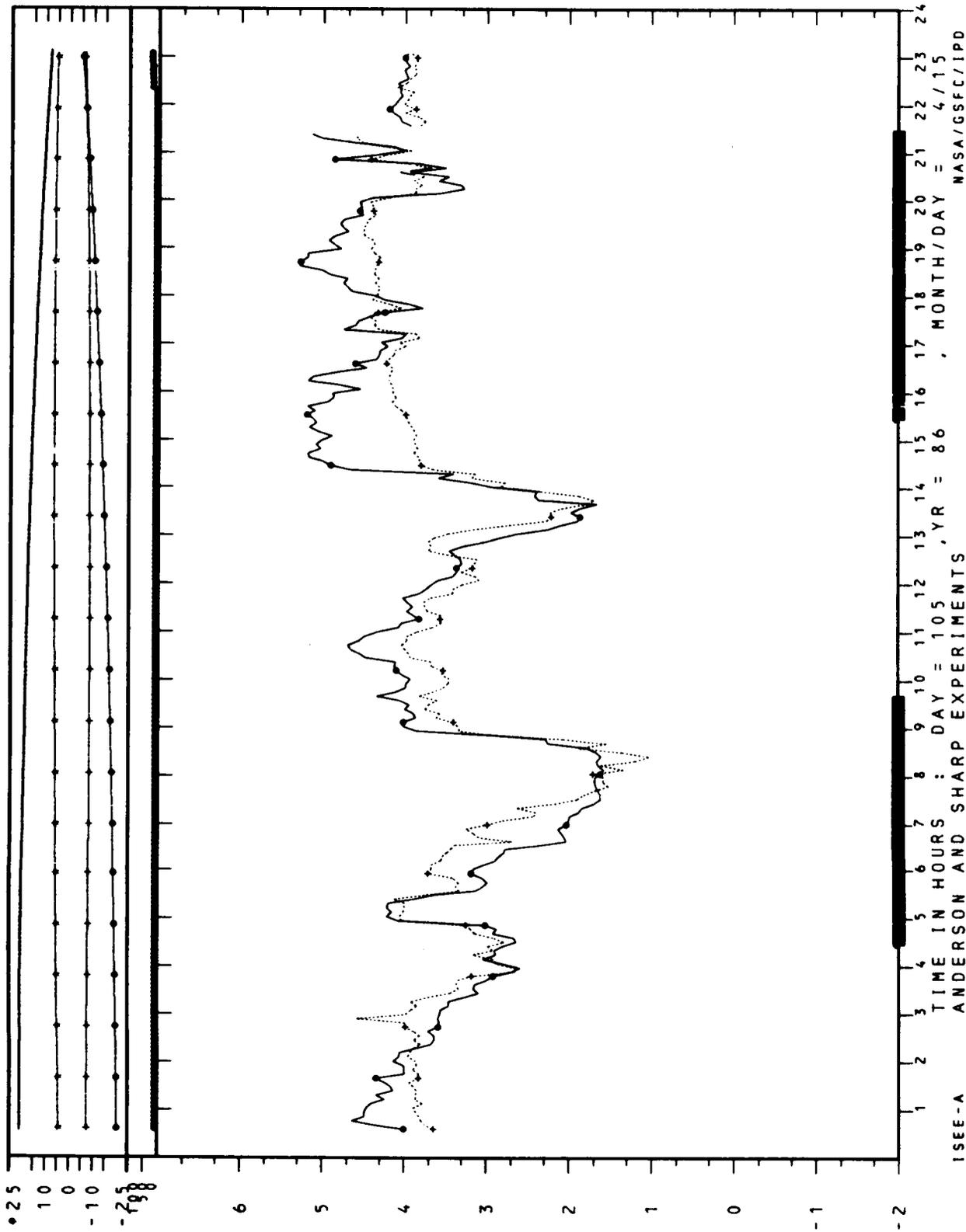
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 TIME IN HOURS : DAY = 111 , YR = 87
 MONTH/DAY = 4/11
 NASA/GSFC/IPD

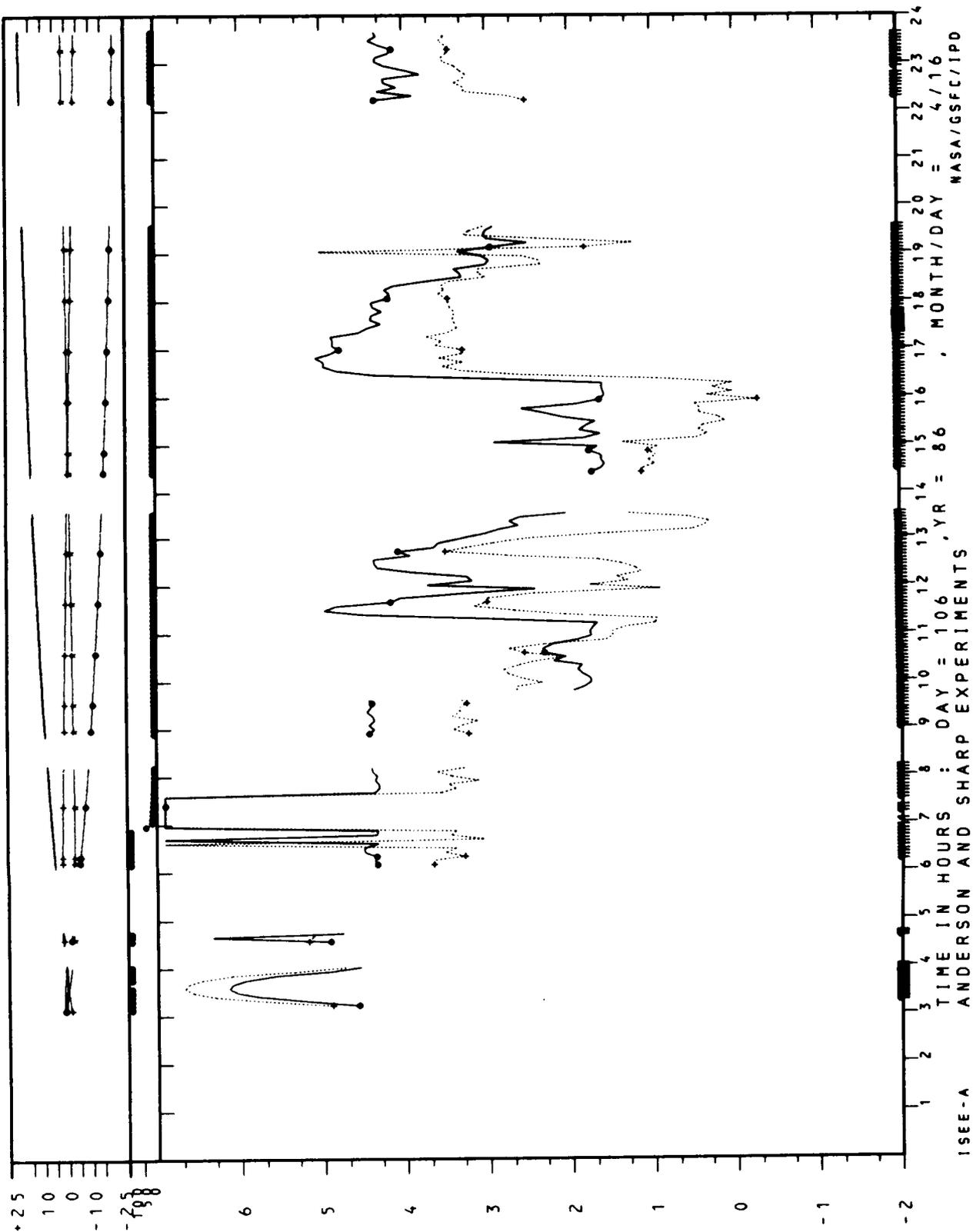


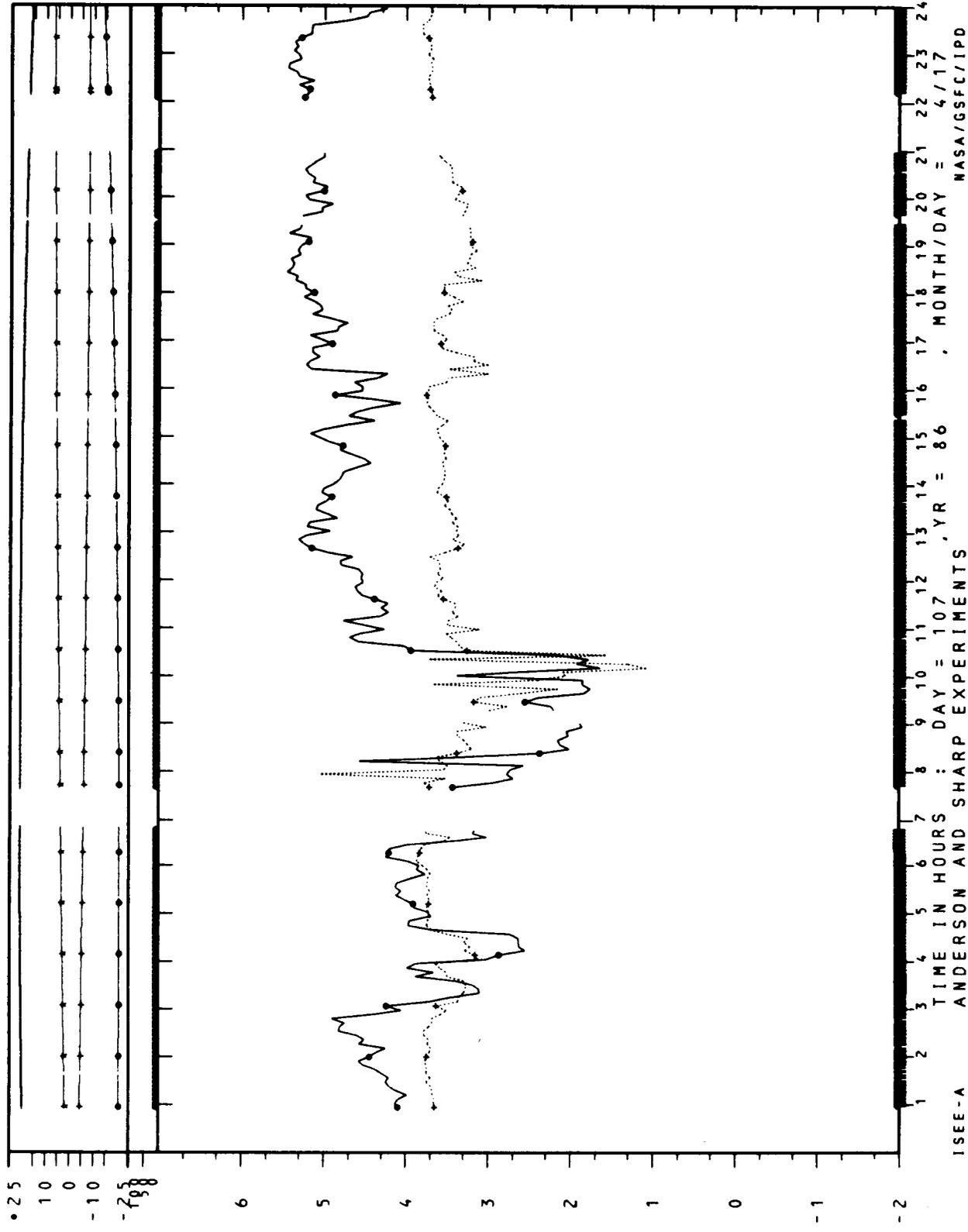


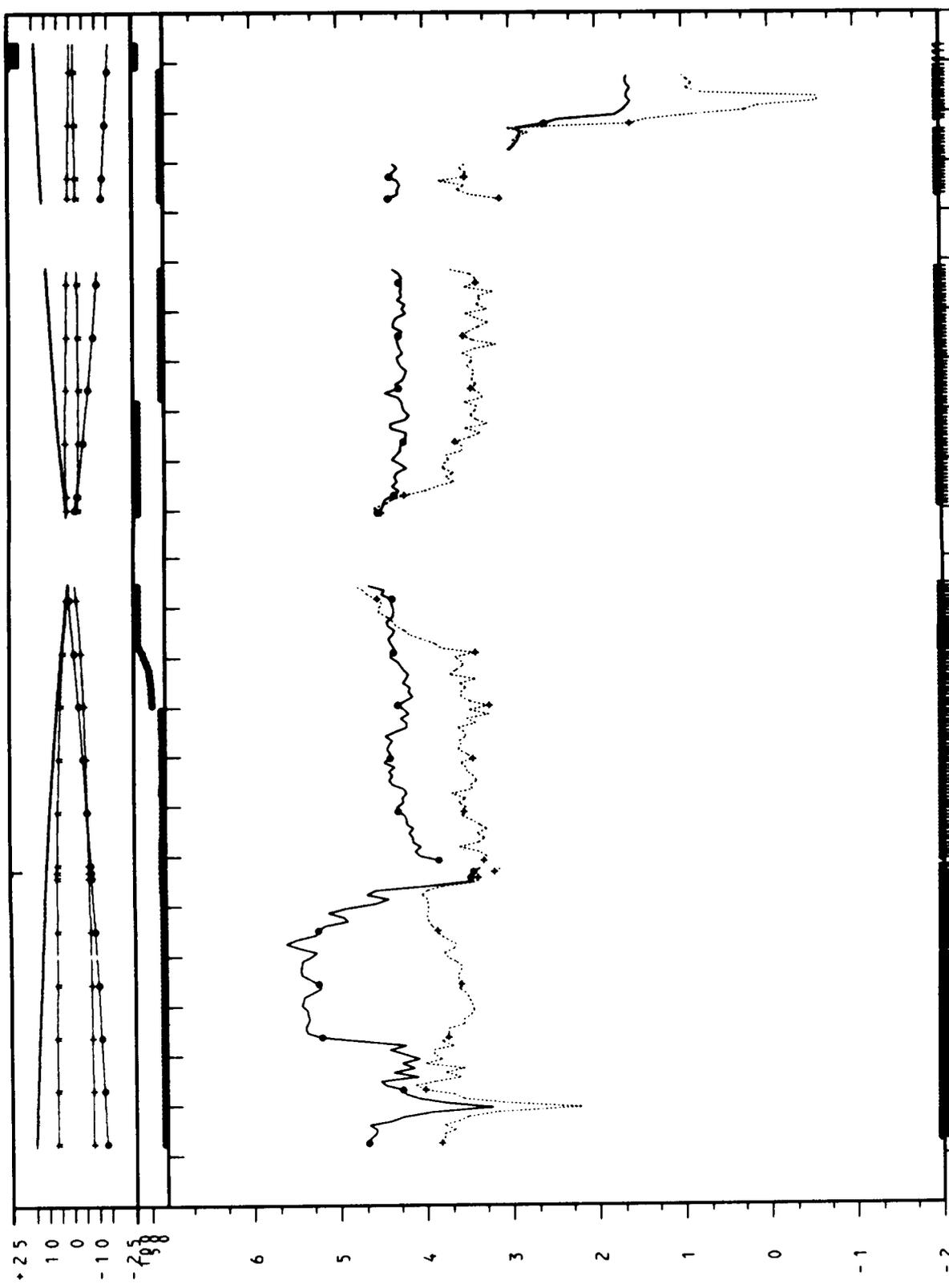


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 NASA/GSFC/IPD

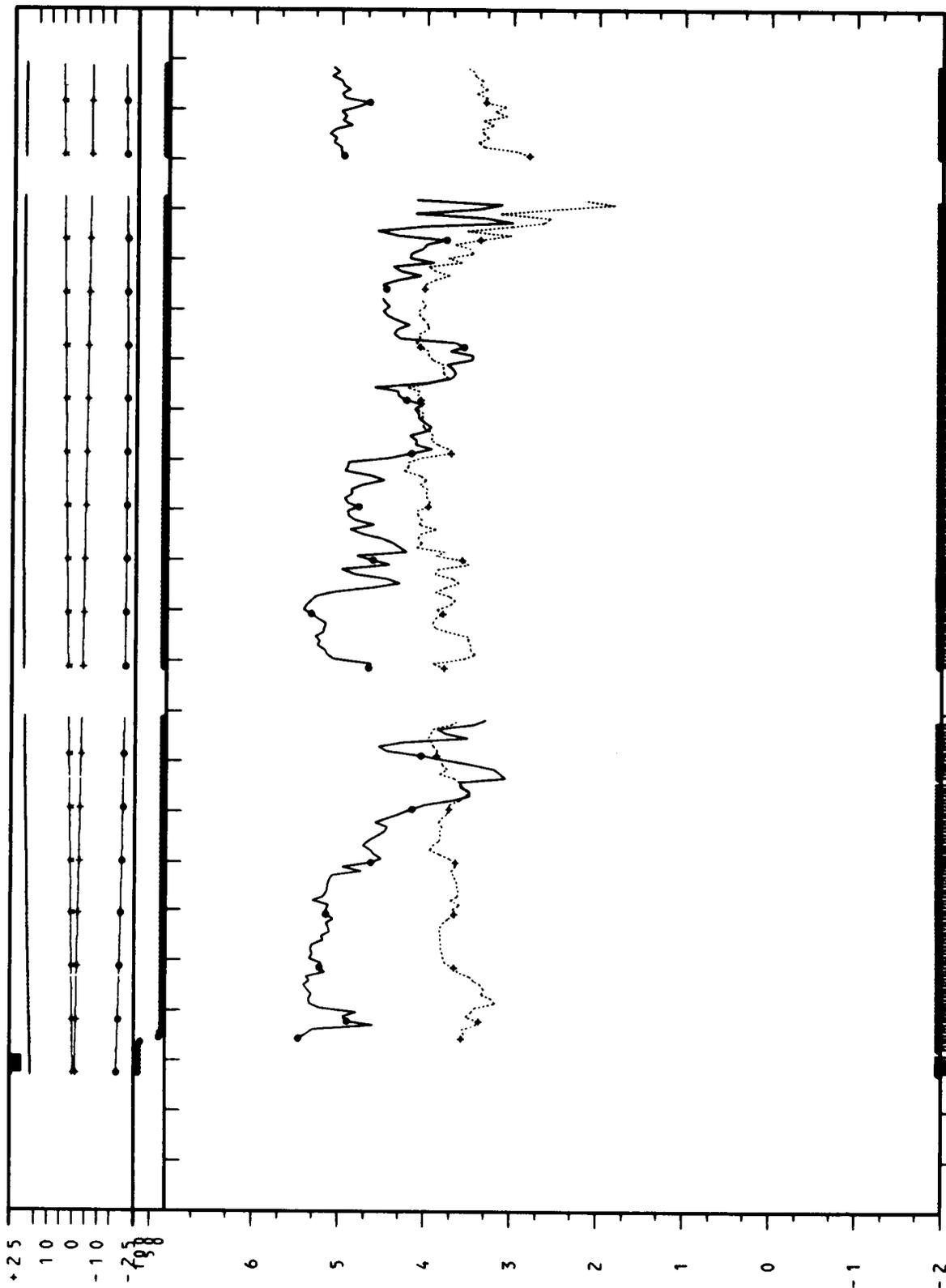




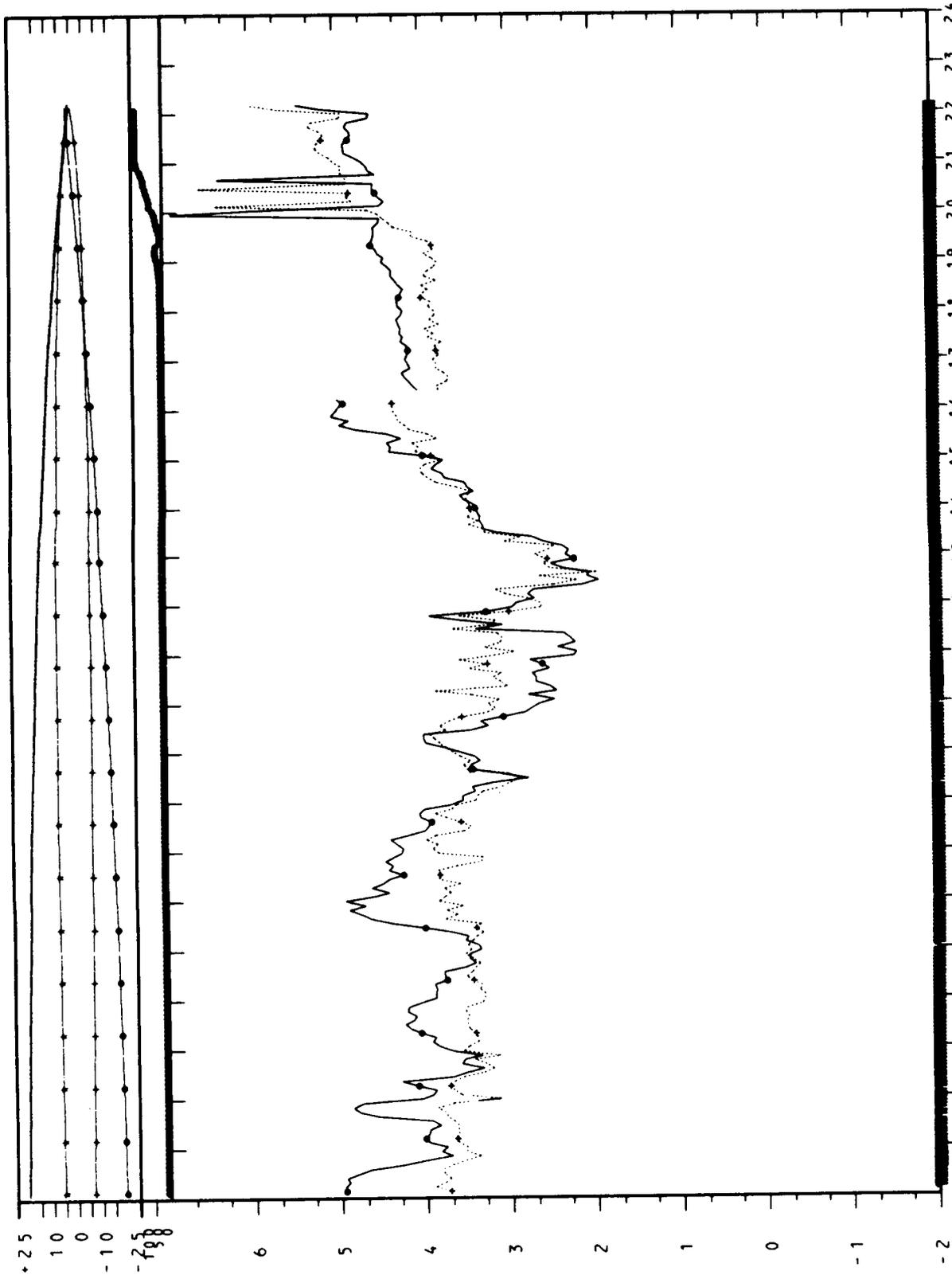




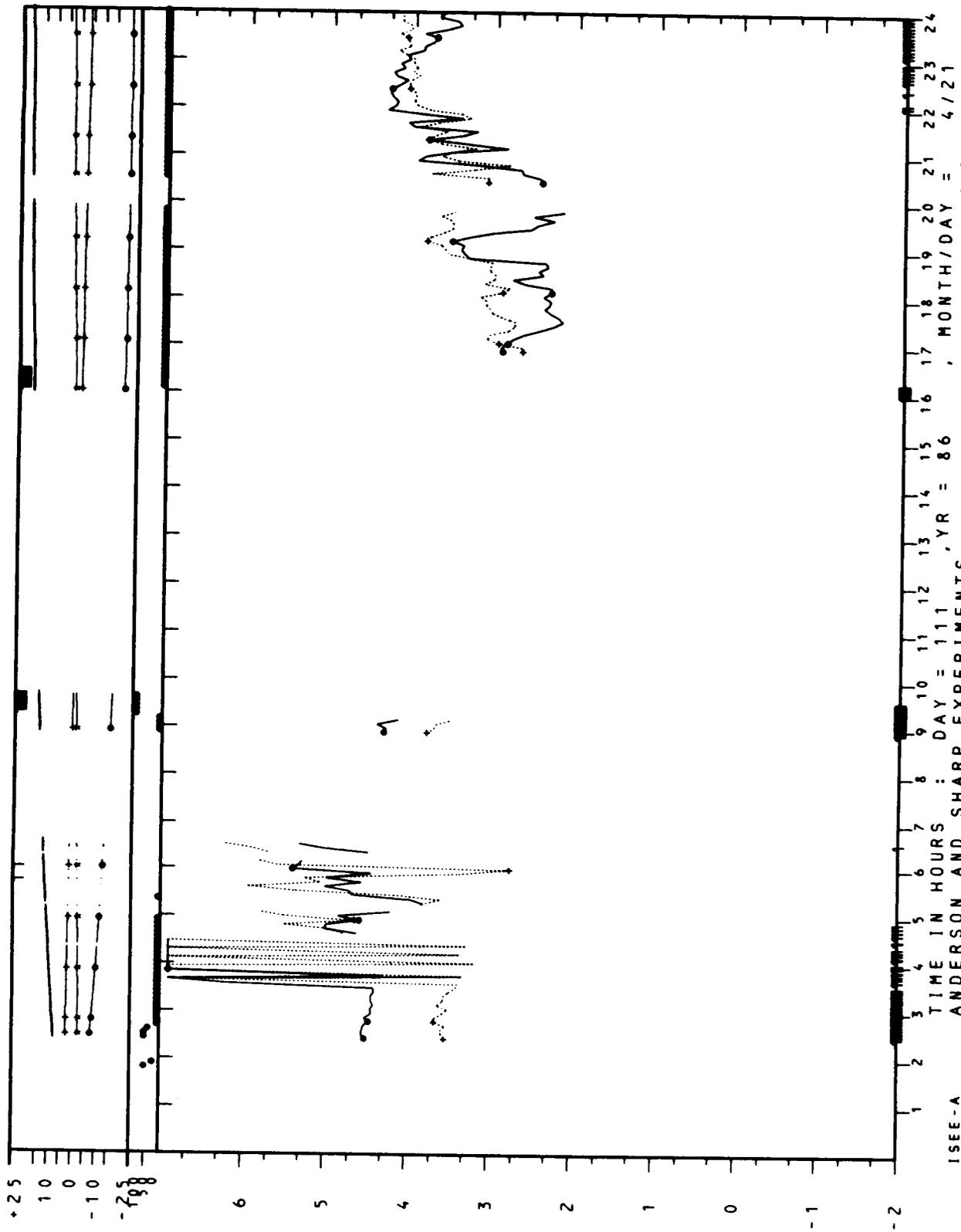
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 NASA/GSFC/IPD



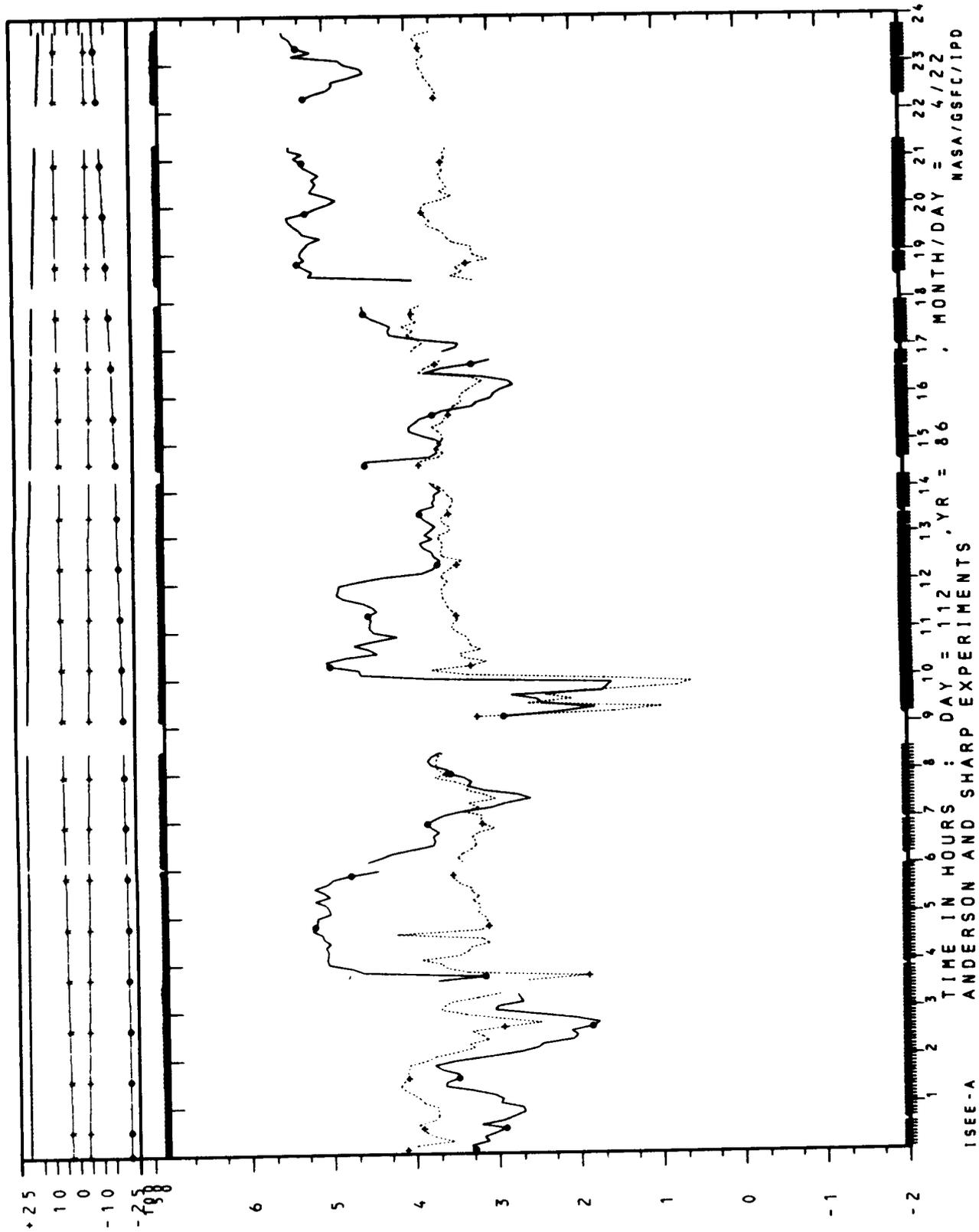
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 NASA/GSFC/IPD

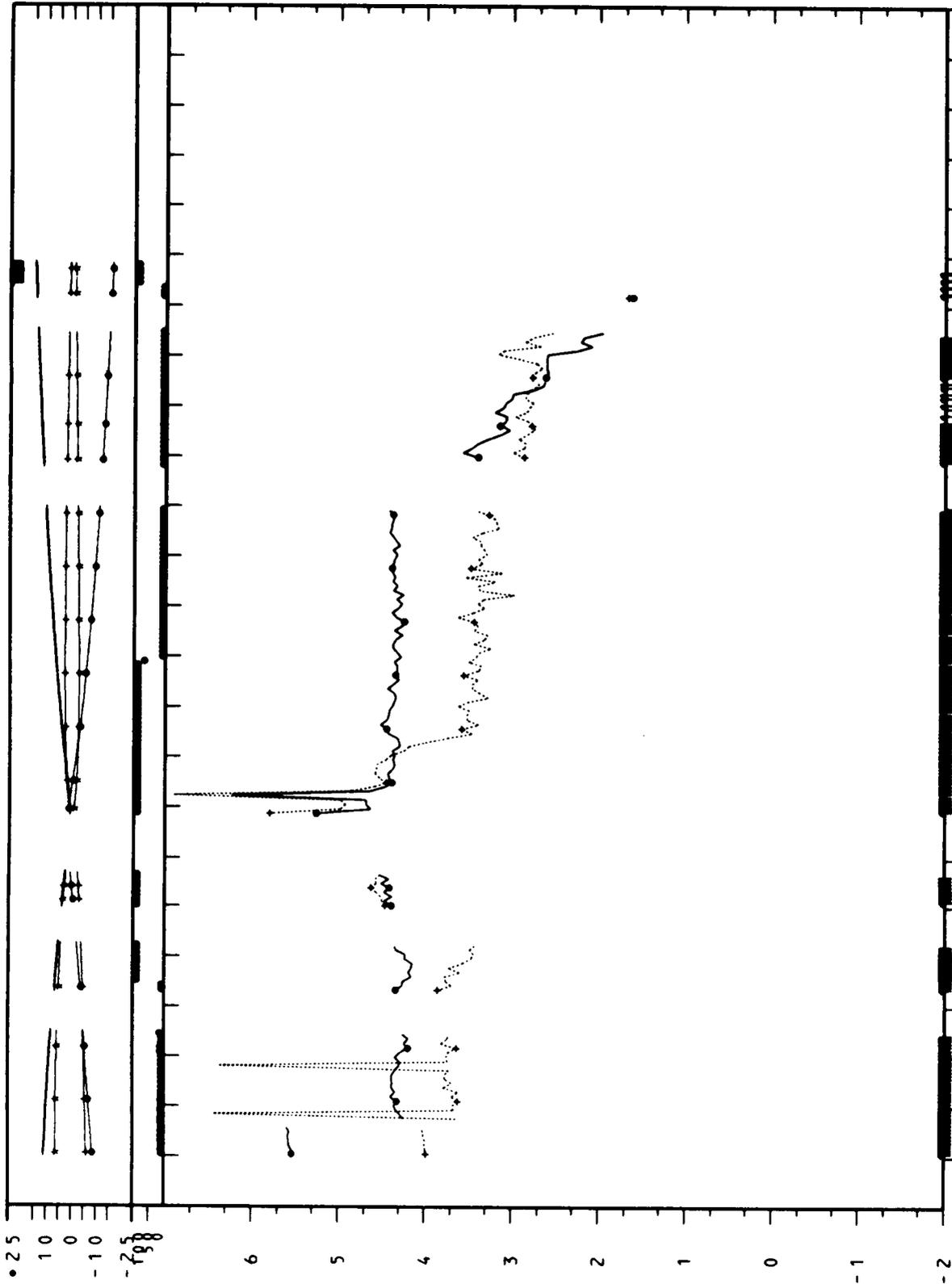


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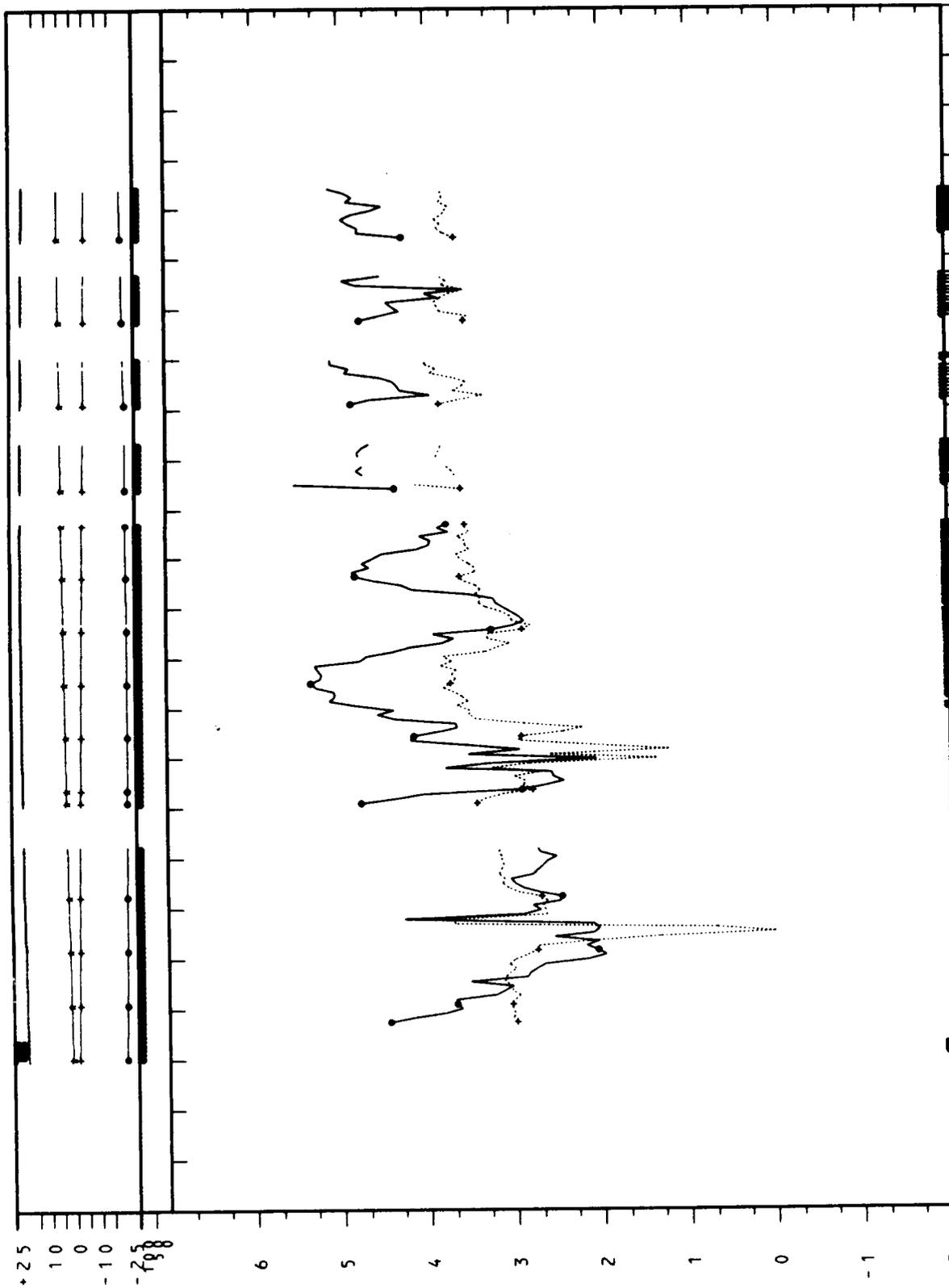


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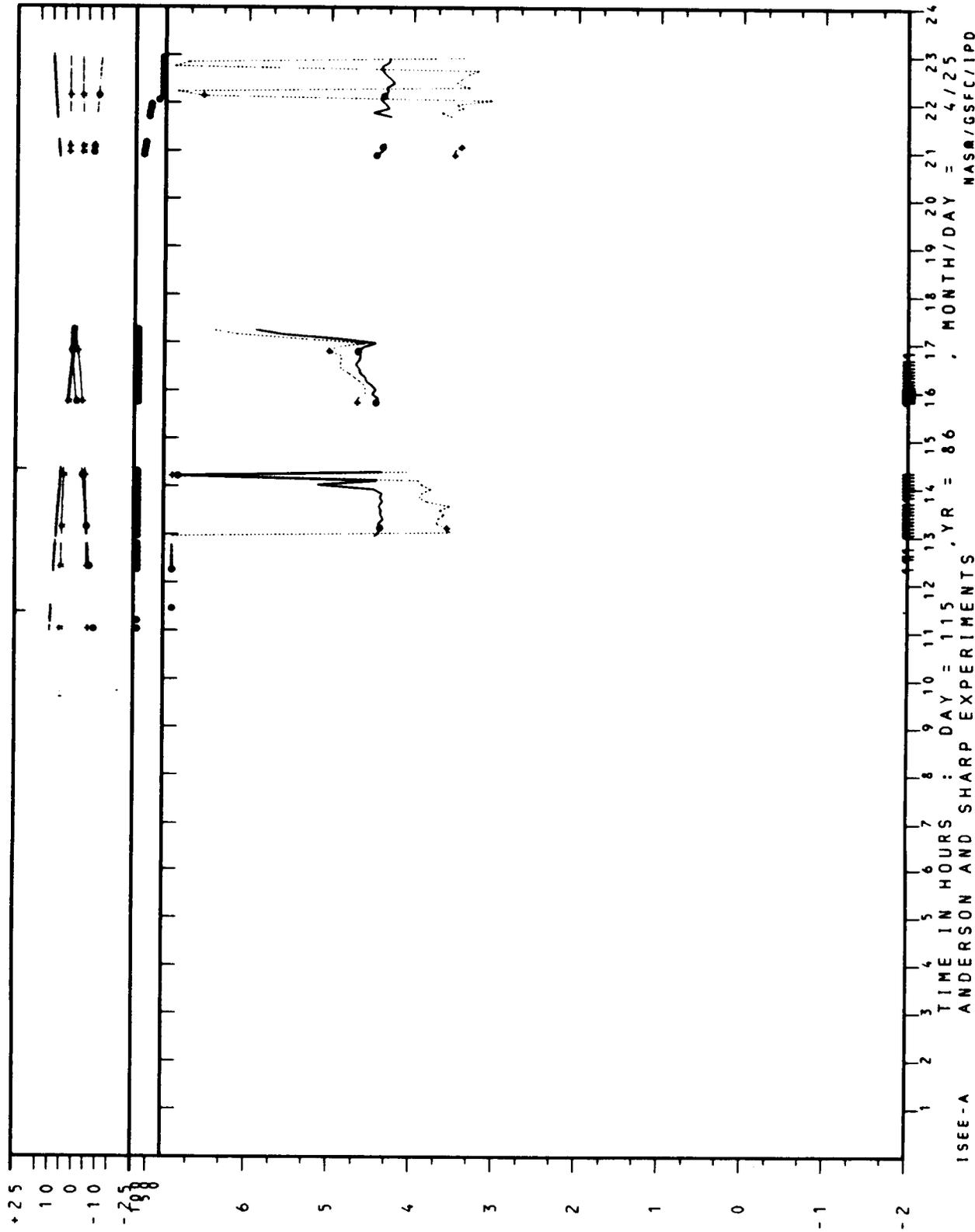




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 NASA/GSFC/IPD



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 ANDERSON AND SHARP EXPERIMENTS
 ISEE-A
 NASA/GSFC/IPD

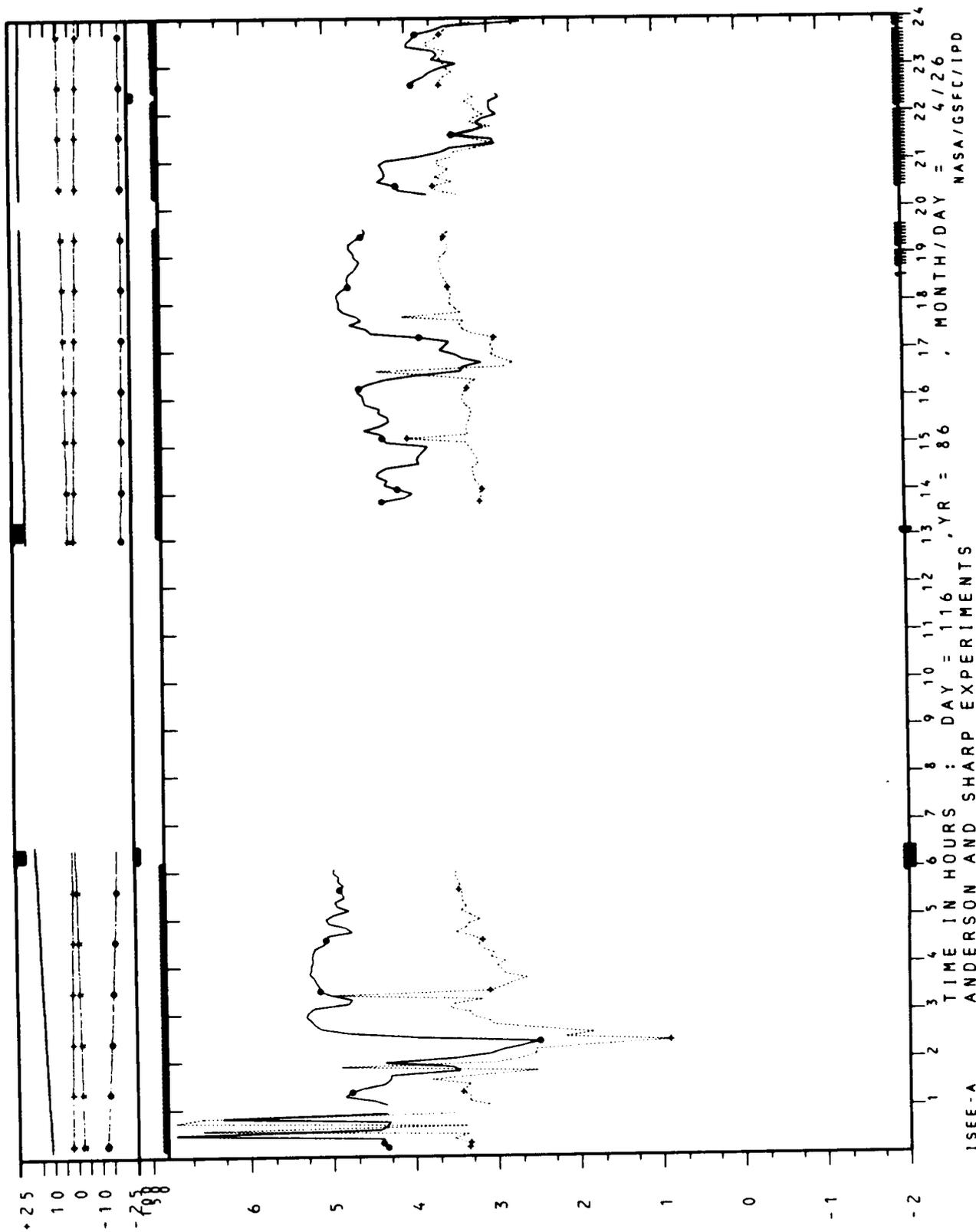


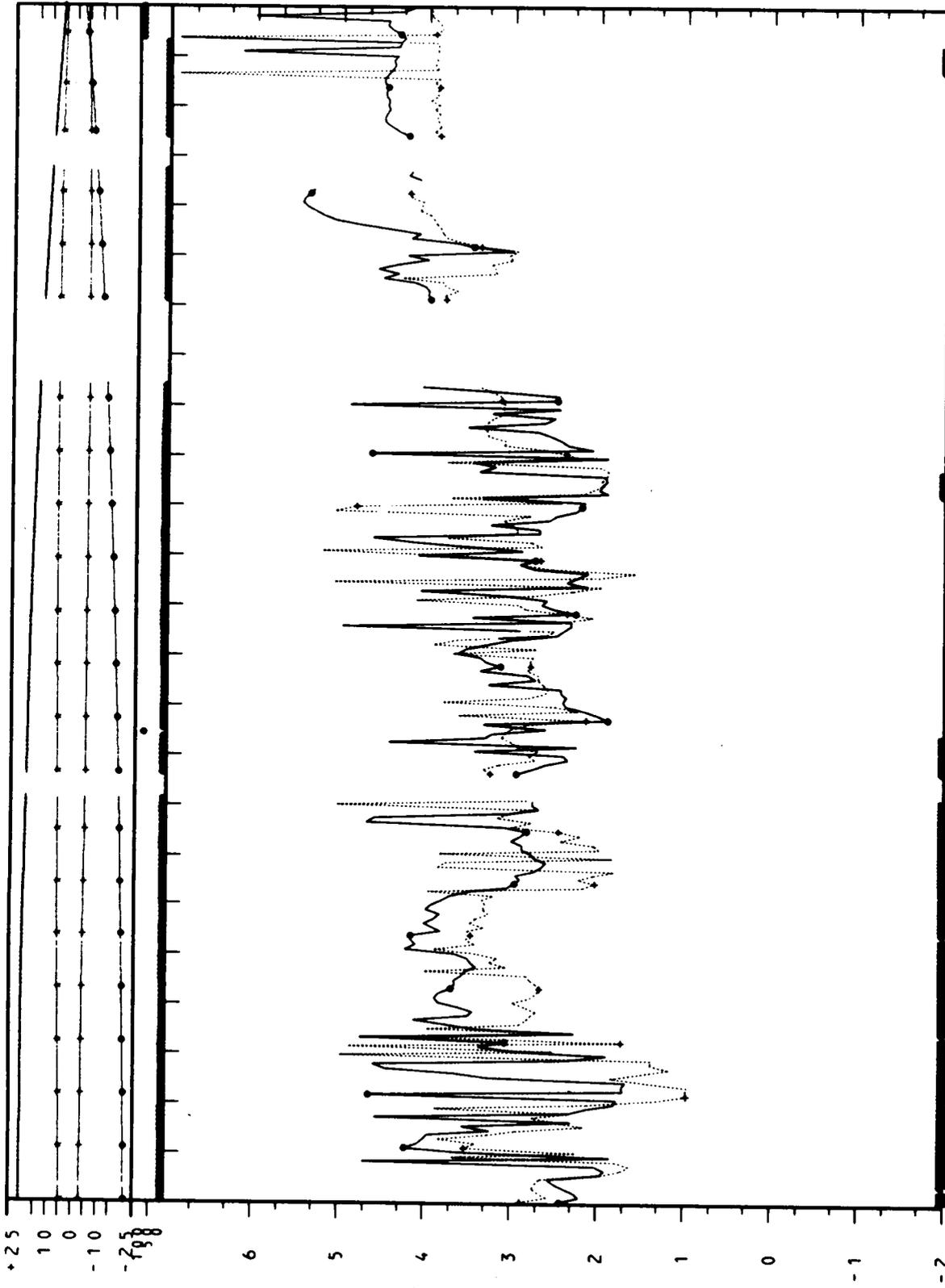
+2.5
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ISEE-A

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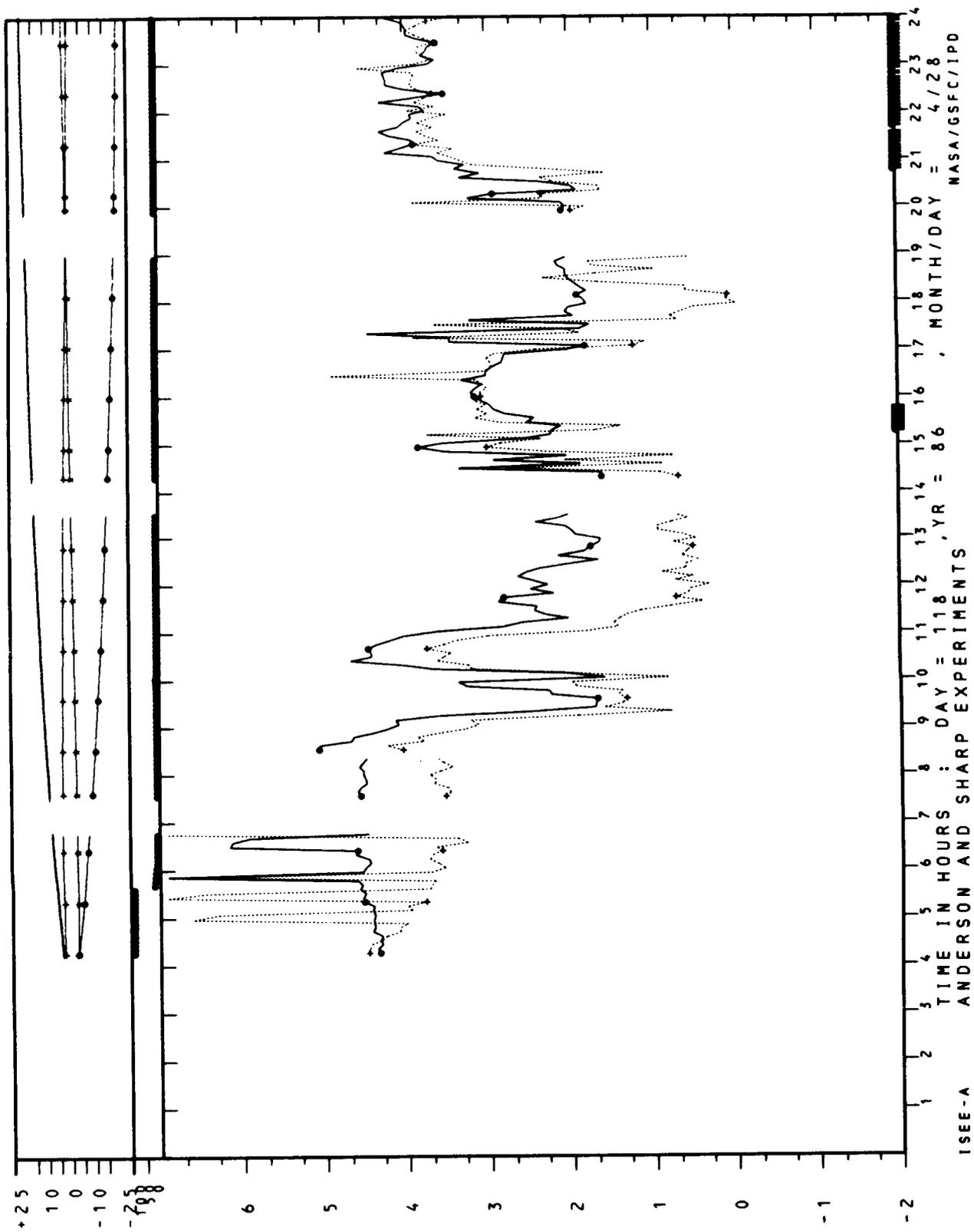
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ANDERSON AND SHARP EXPERIMENTS , YR = 86
MONTH/DAY = 4/25
NASM/GSFC/IPD



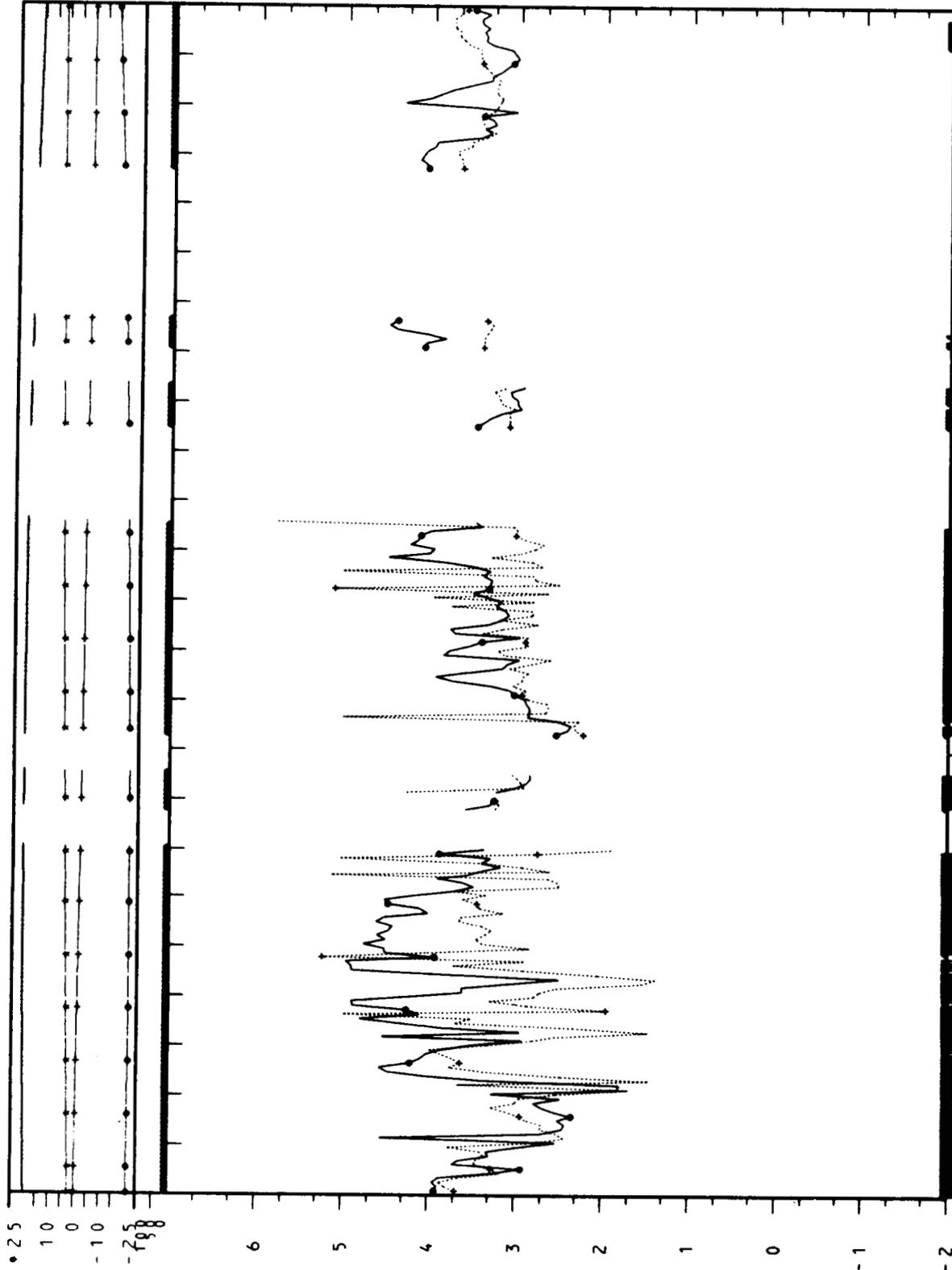


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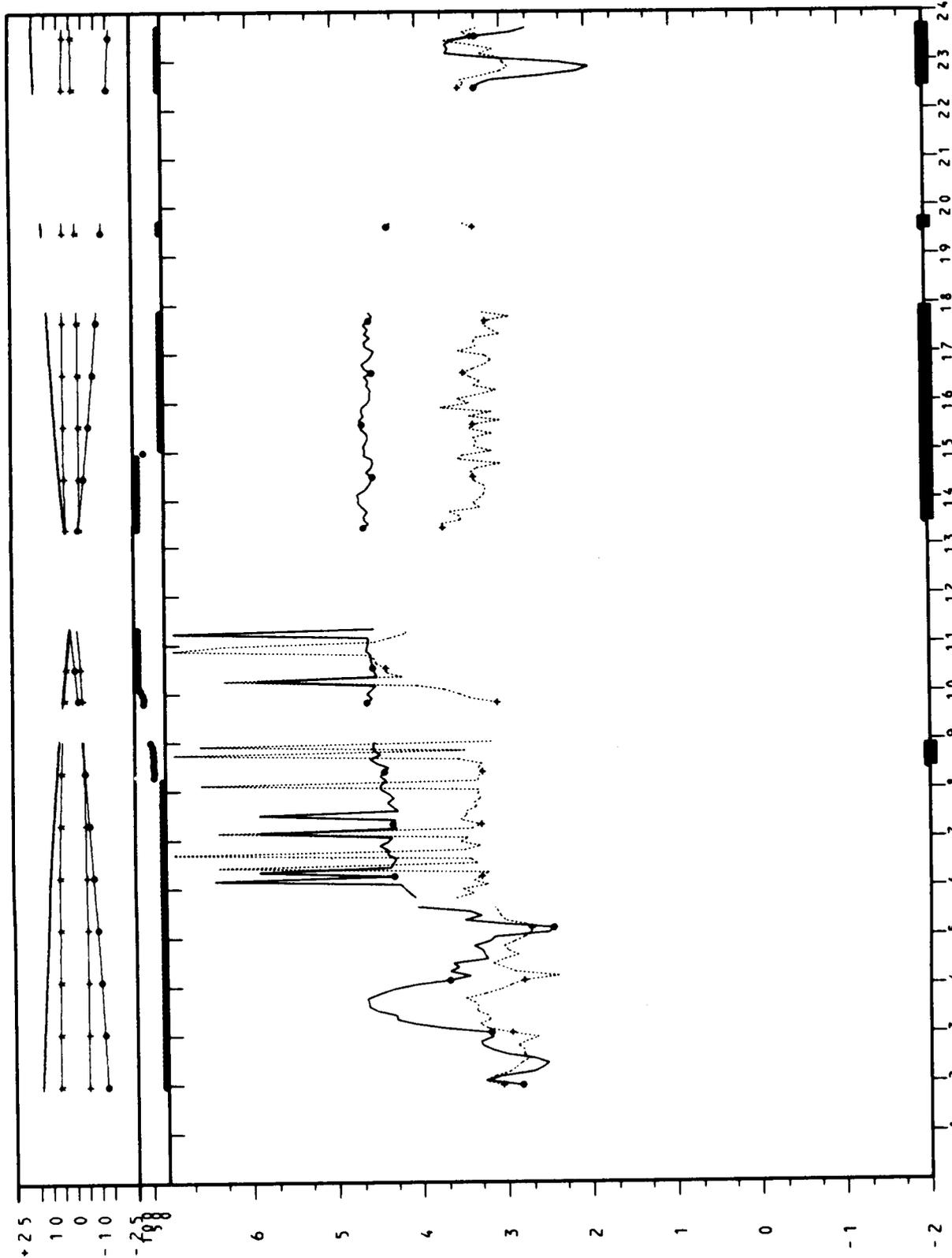


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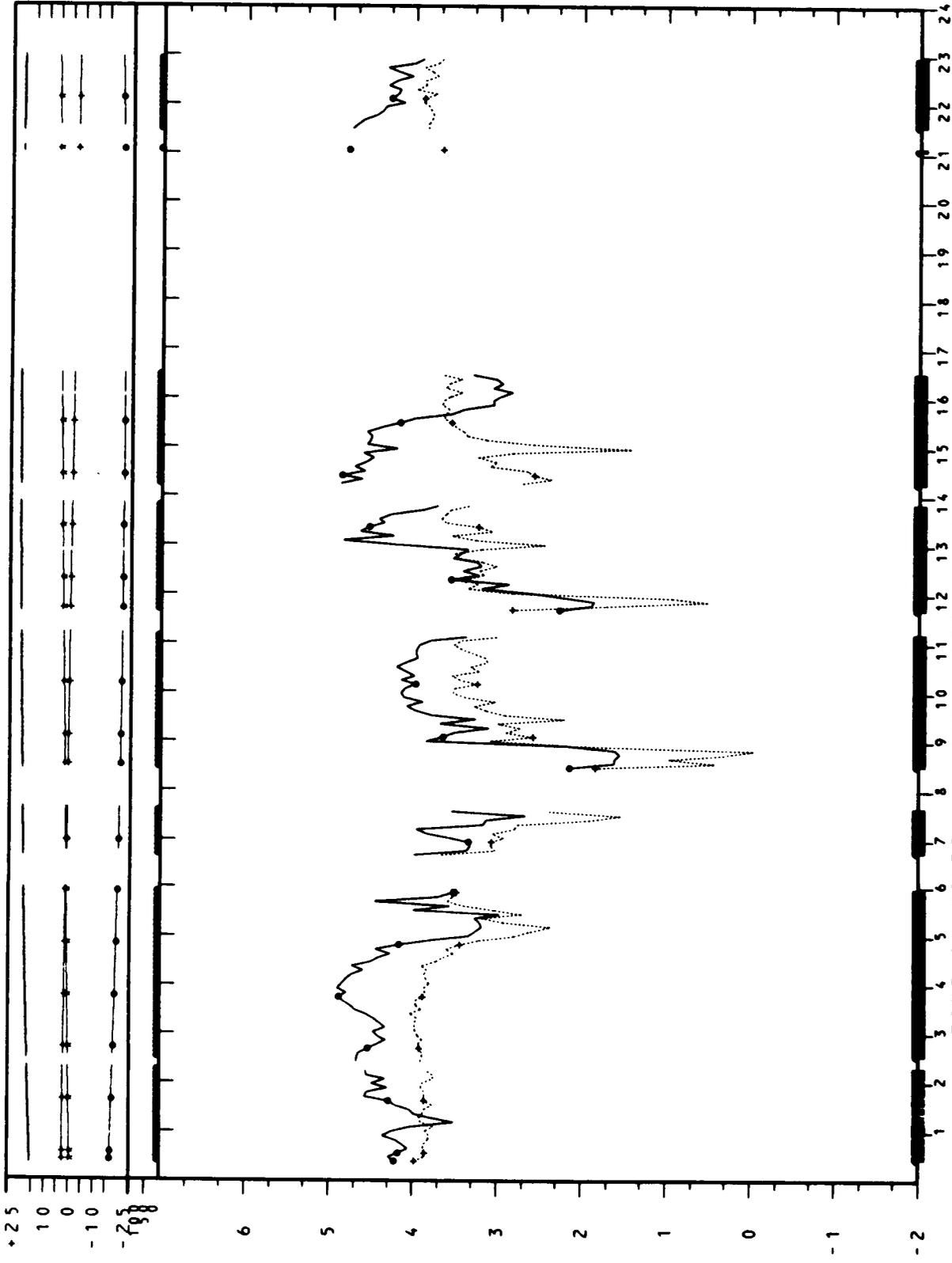
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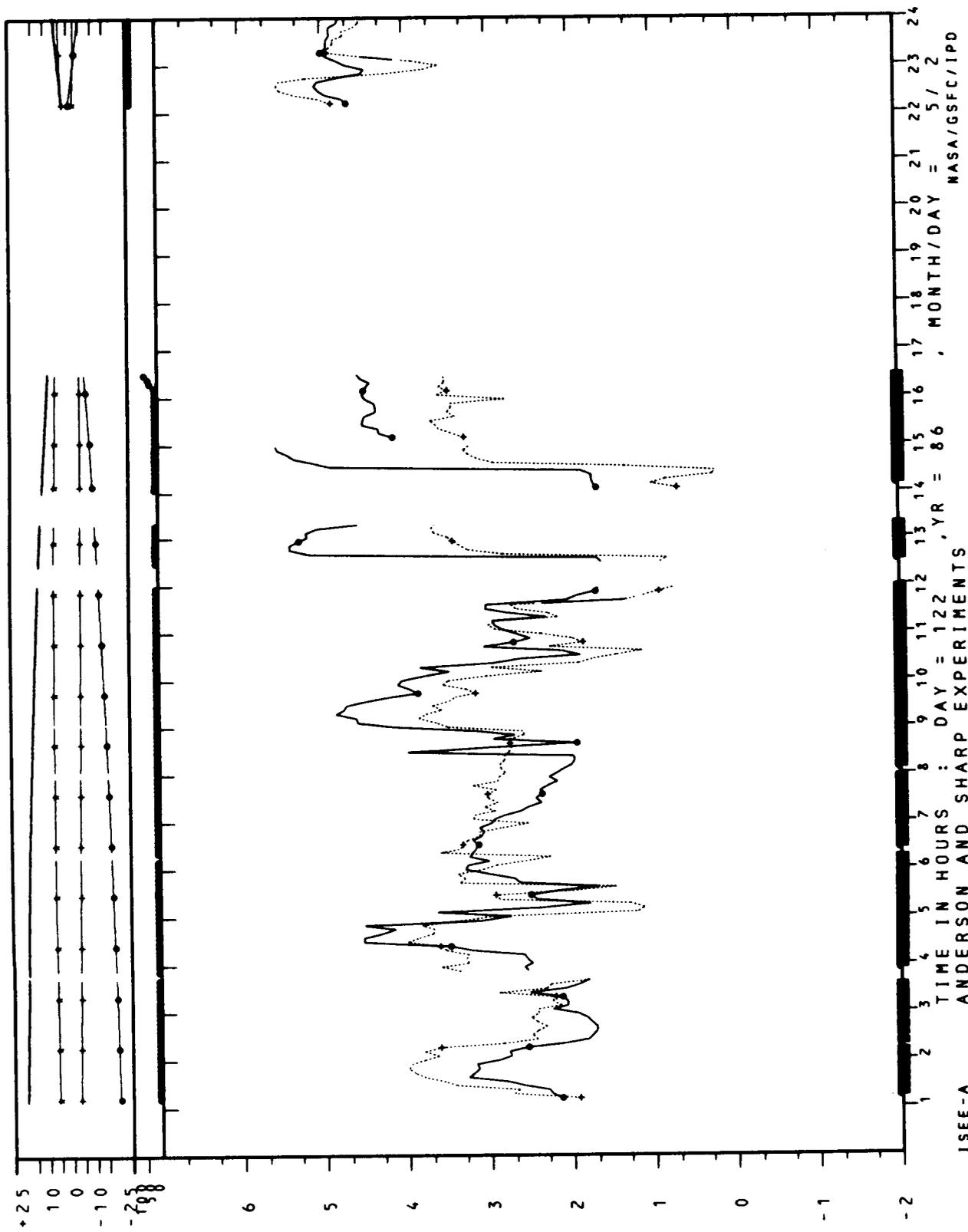
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 NASA/GSFC/IPD

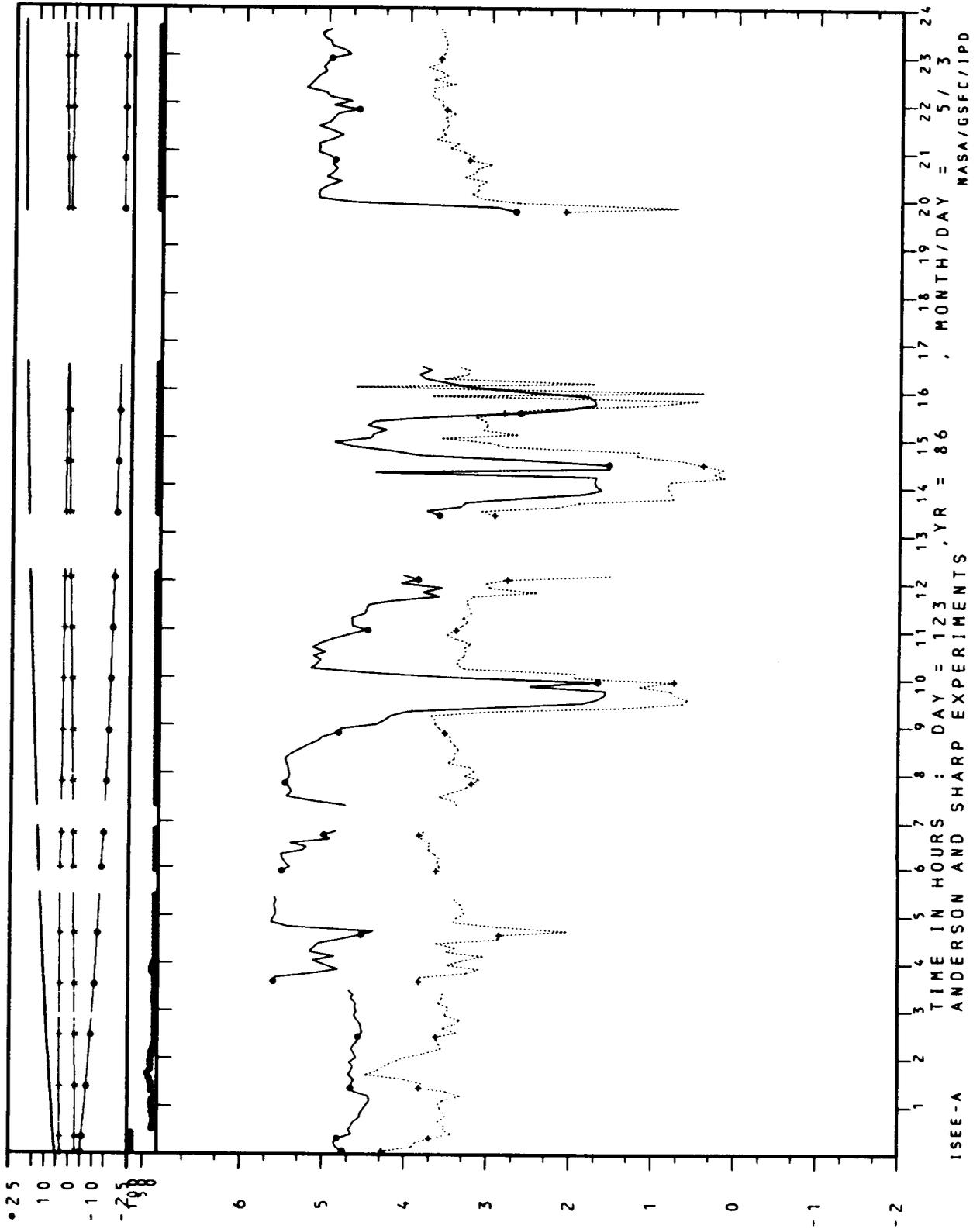


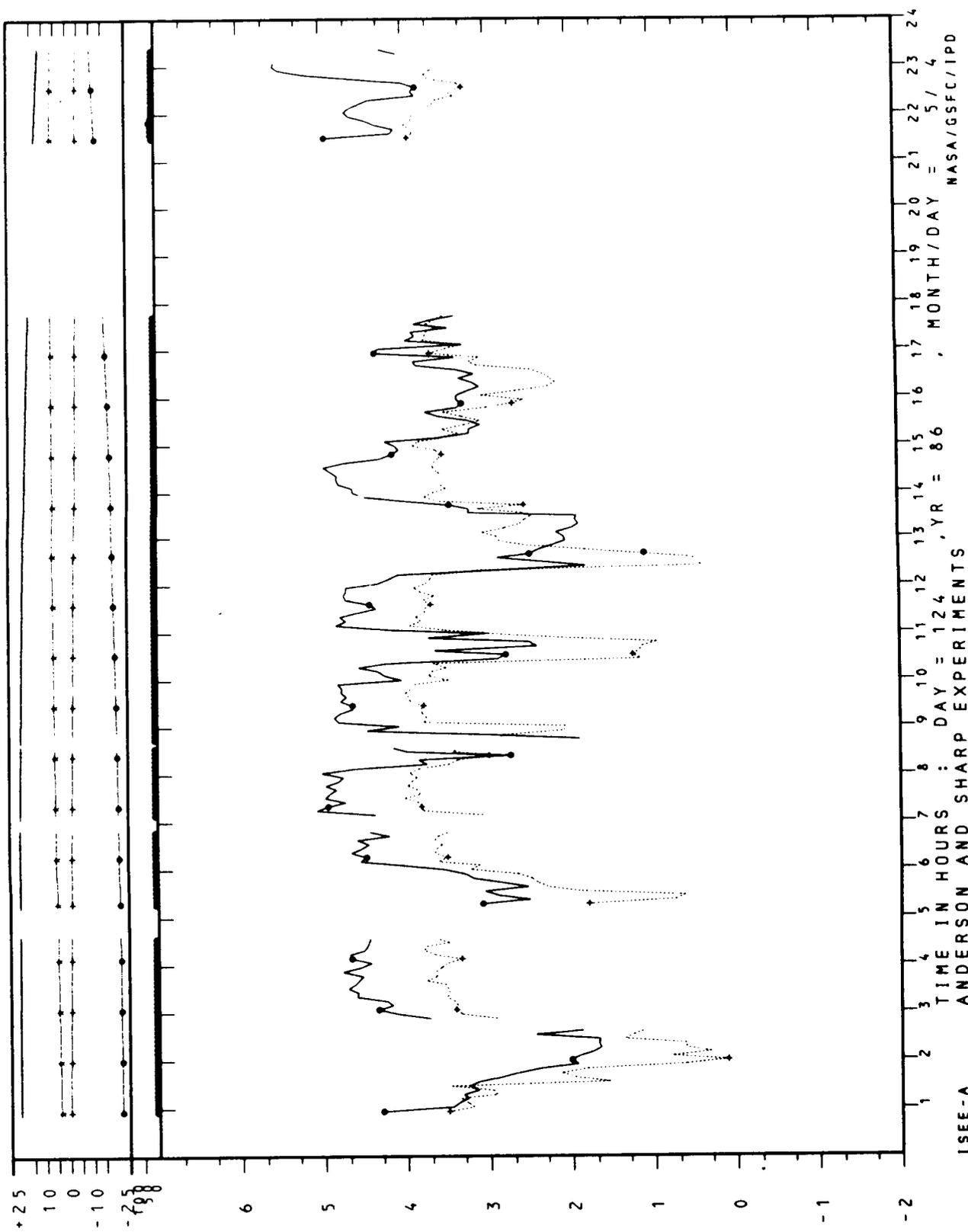
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 NASA/GSFC/IPD

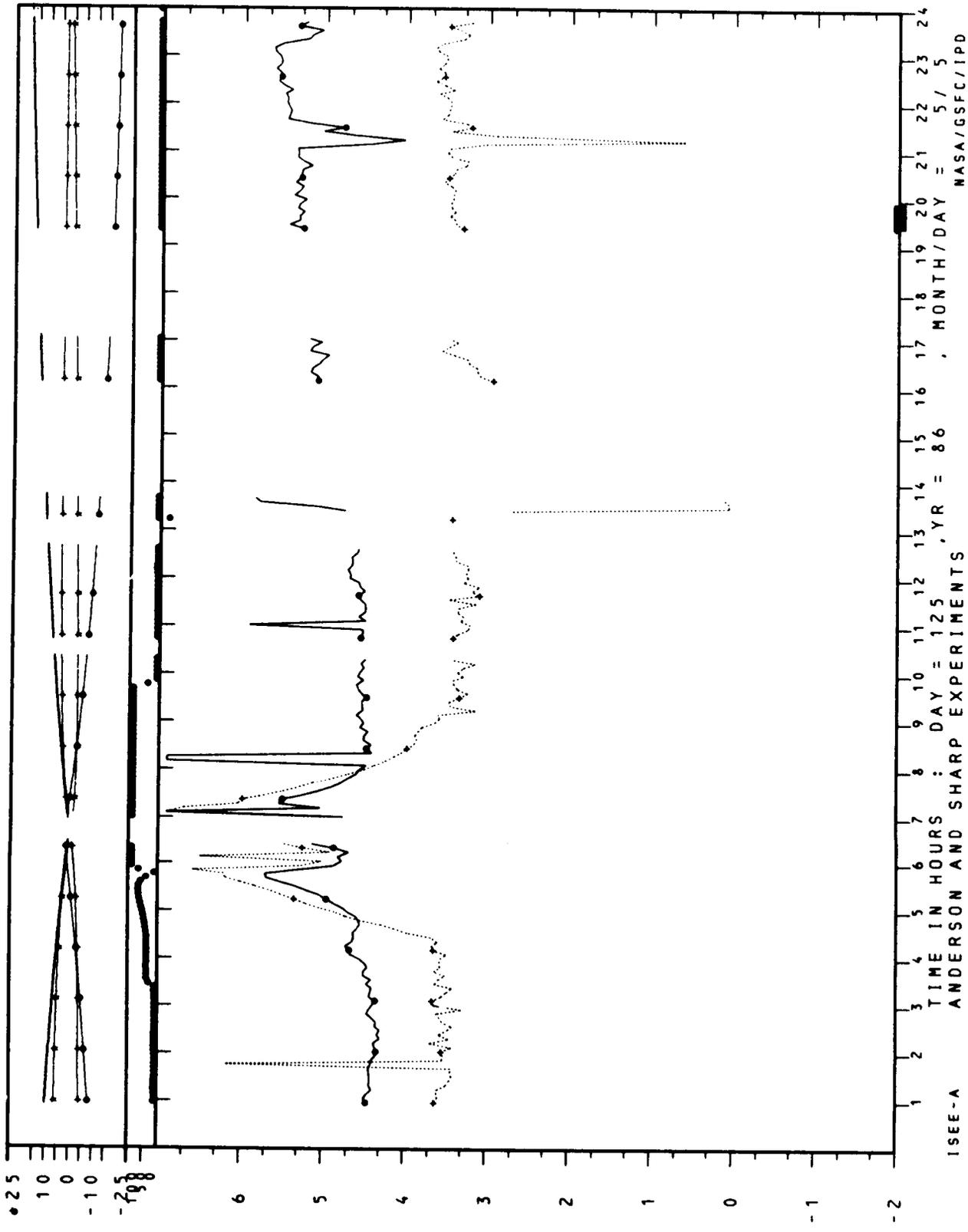


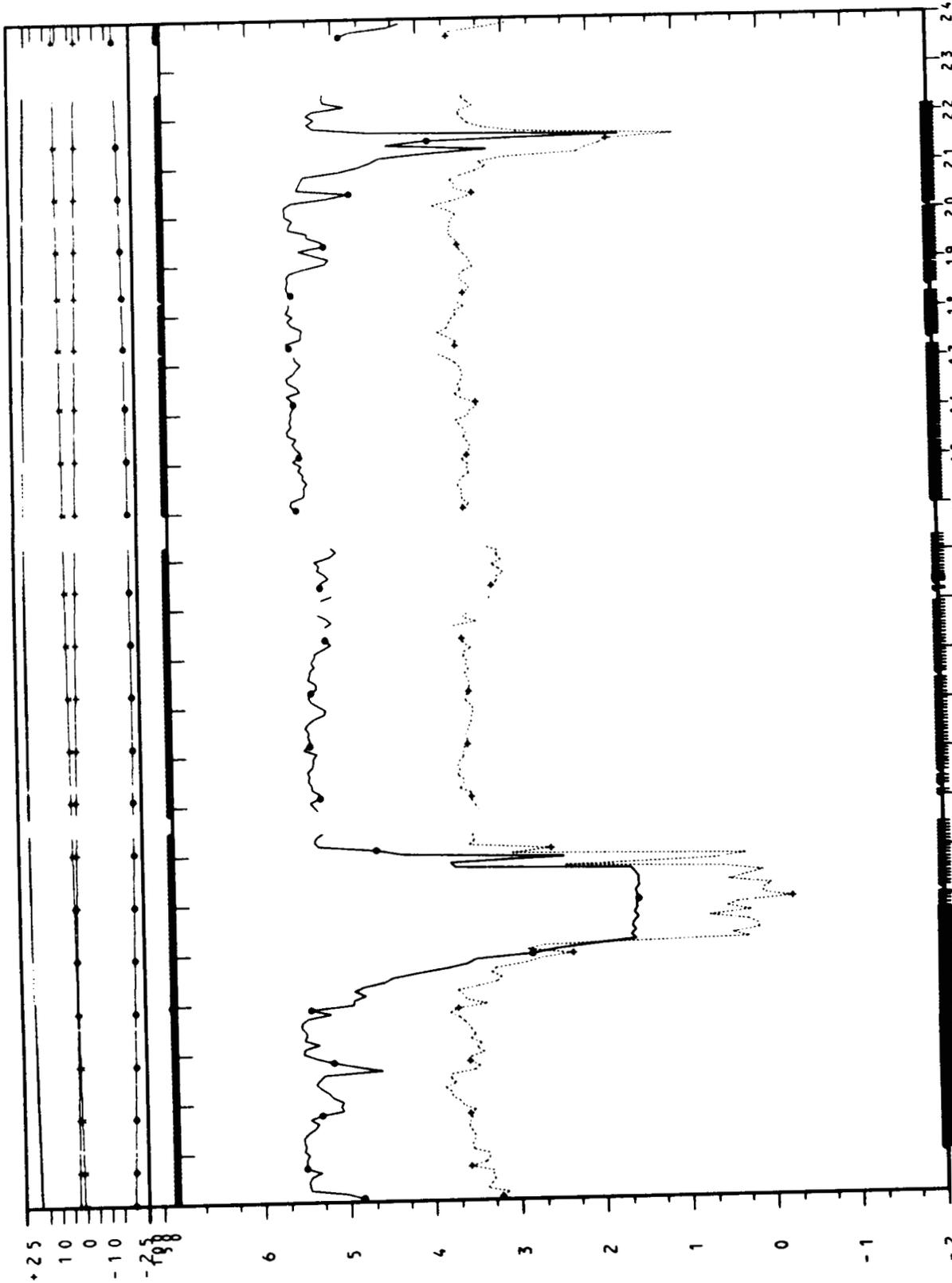
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 ANDERSON AND SHARP EXPERIMENTS
 DAY = 121
 .YR = 86
 MONTH/DAY = 5 / 1
 NASA/GSFC/IPD



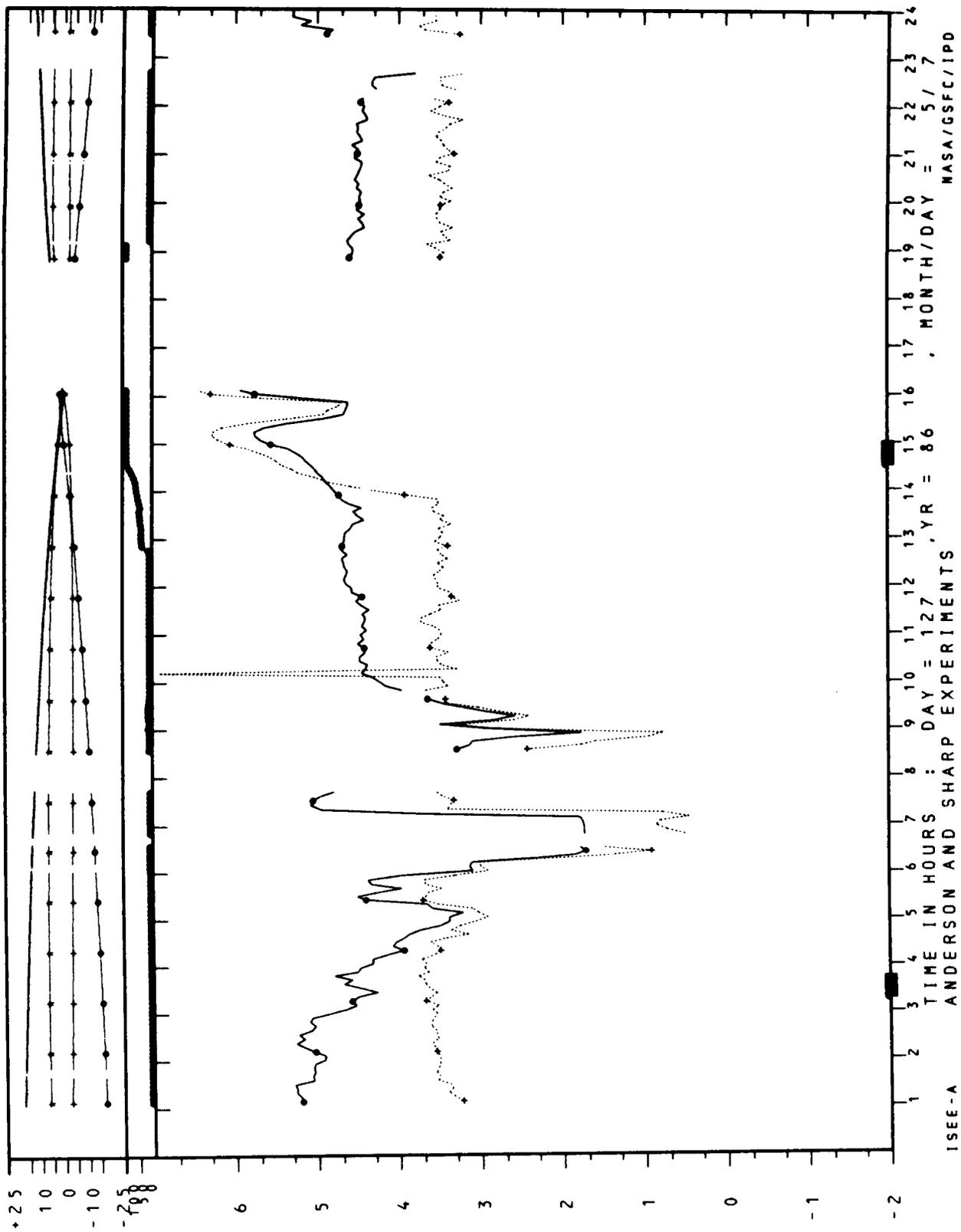


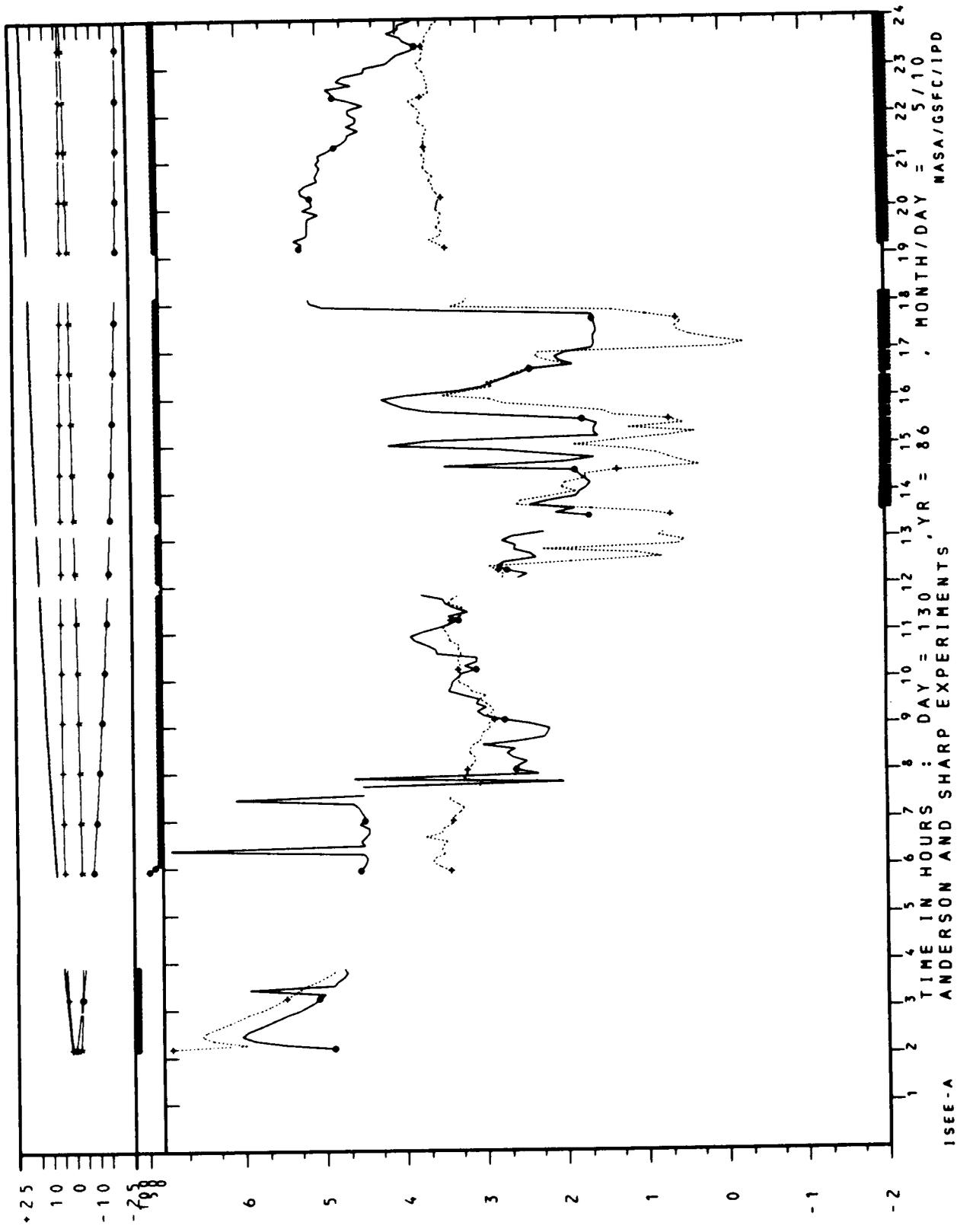


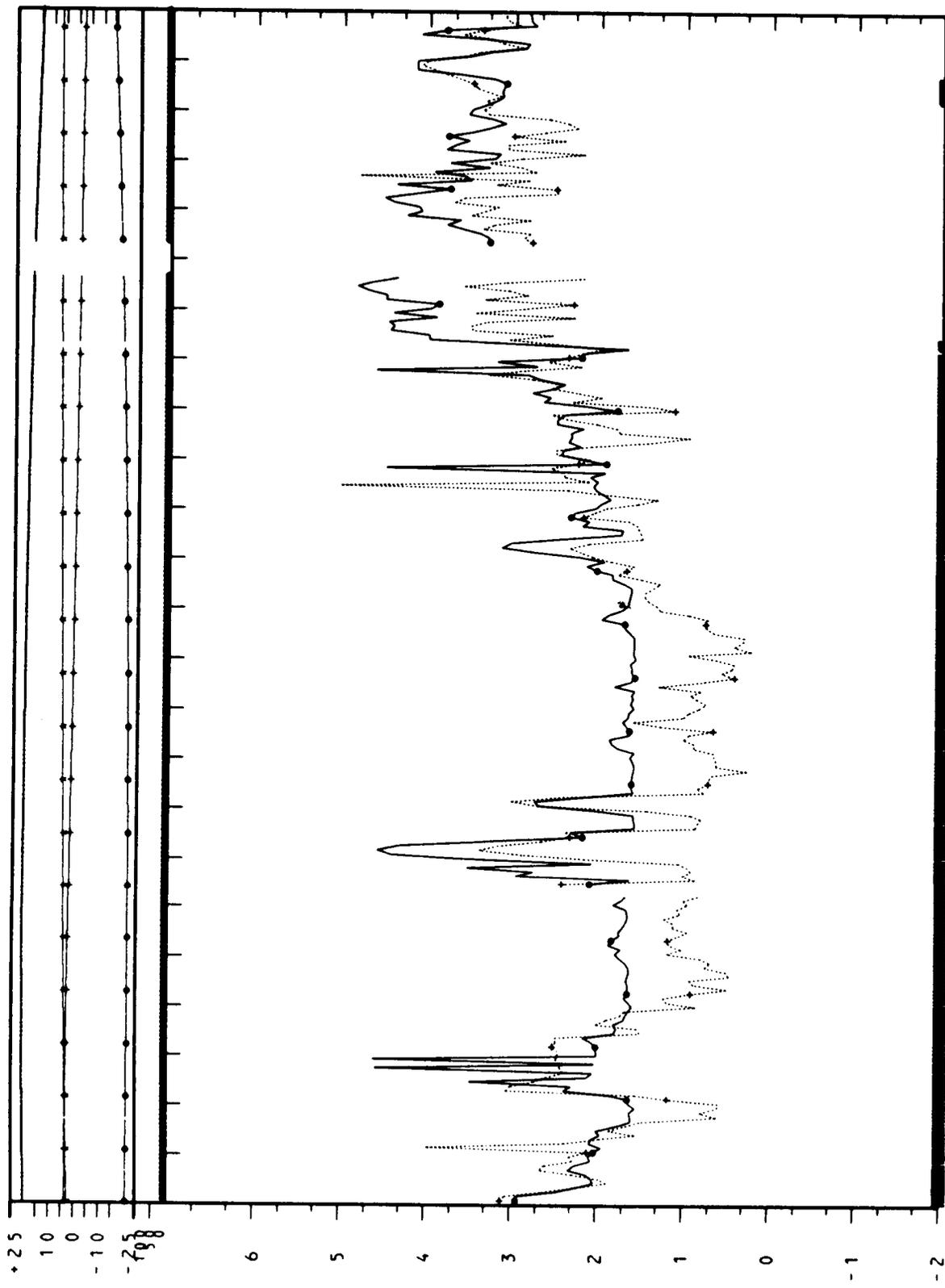




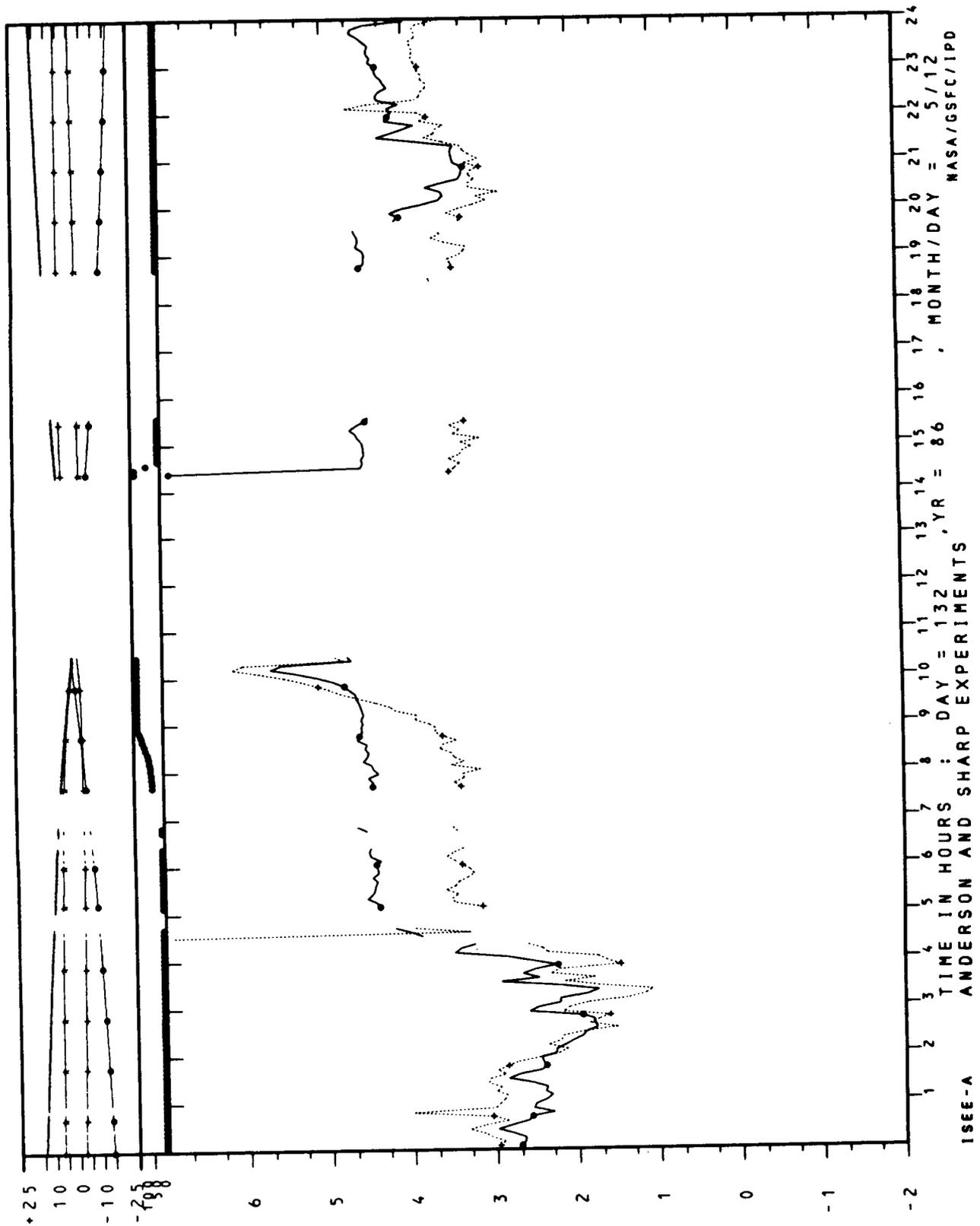
1988
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 NASA/GSFC/IPD

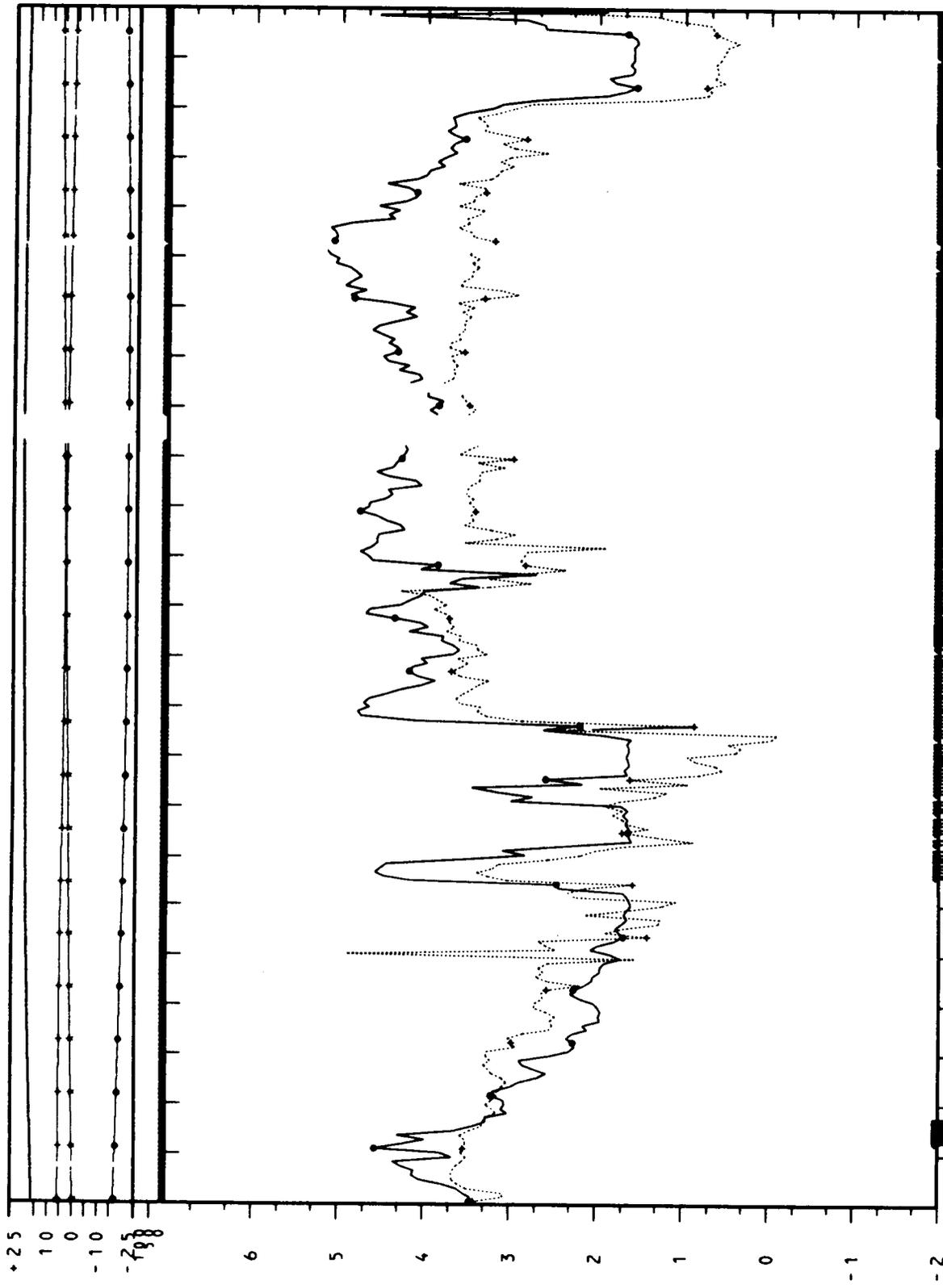




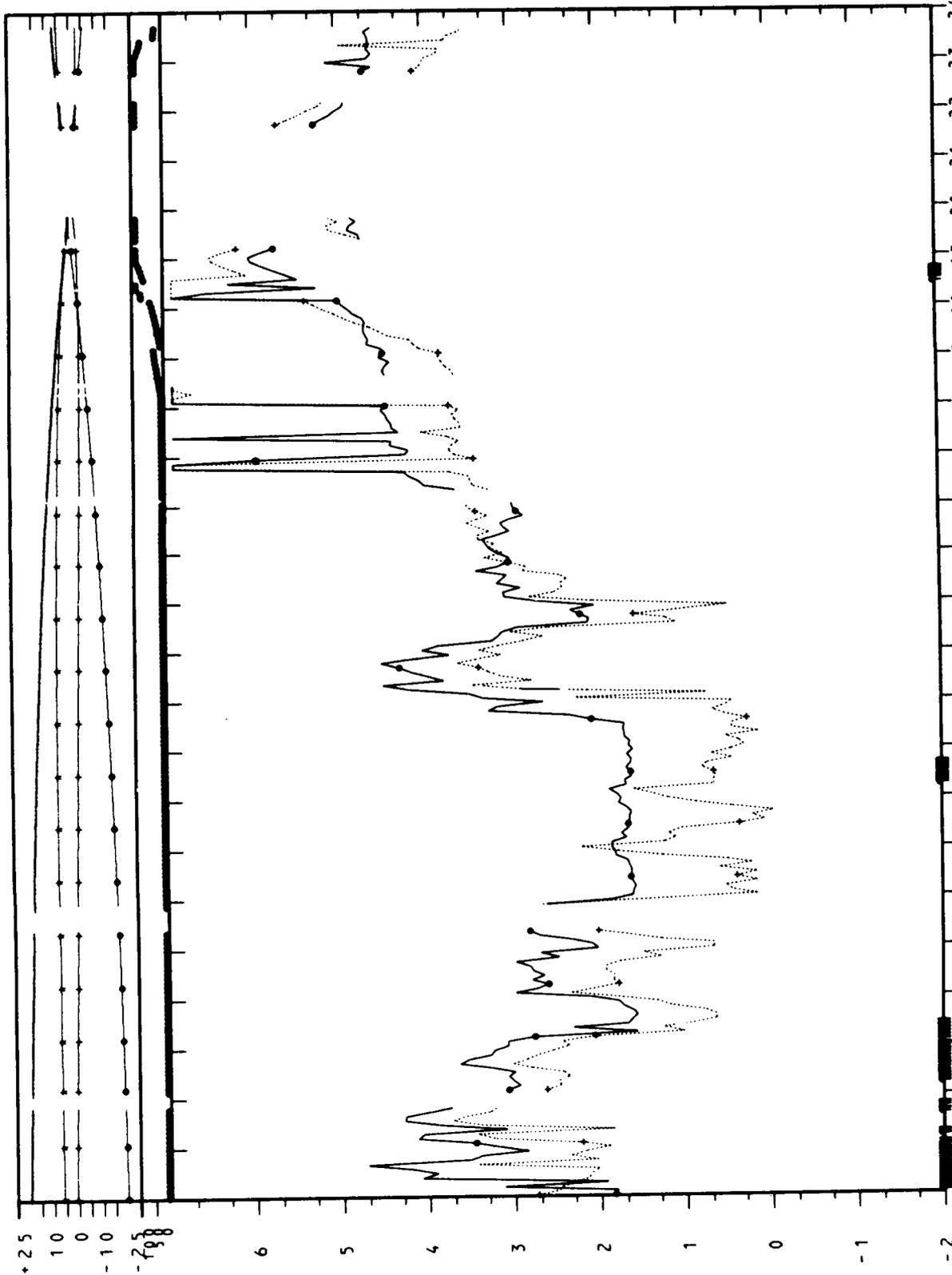


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 ANDERSON AND SHARP EXPERIMENTS
 NASA/GSFC/IPD

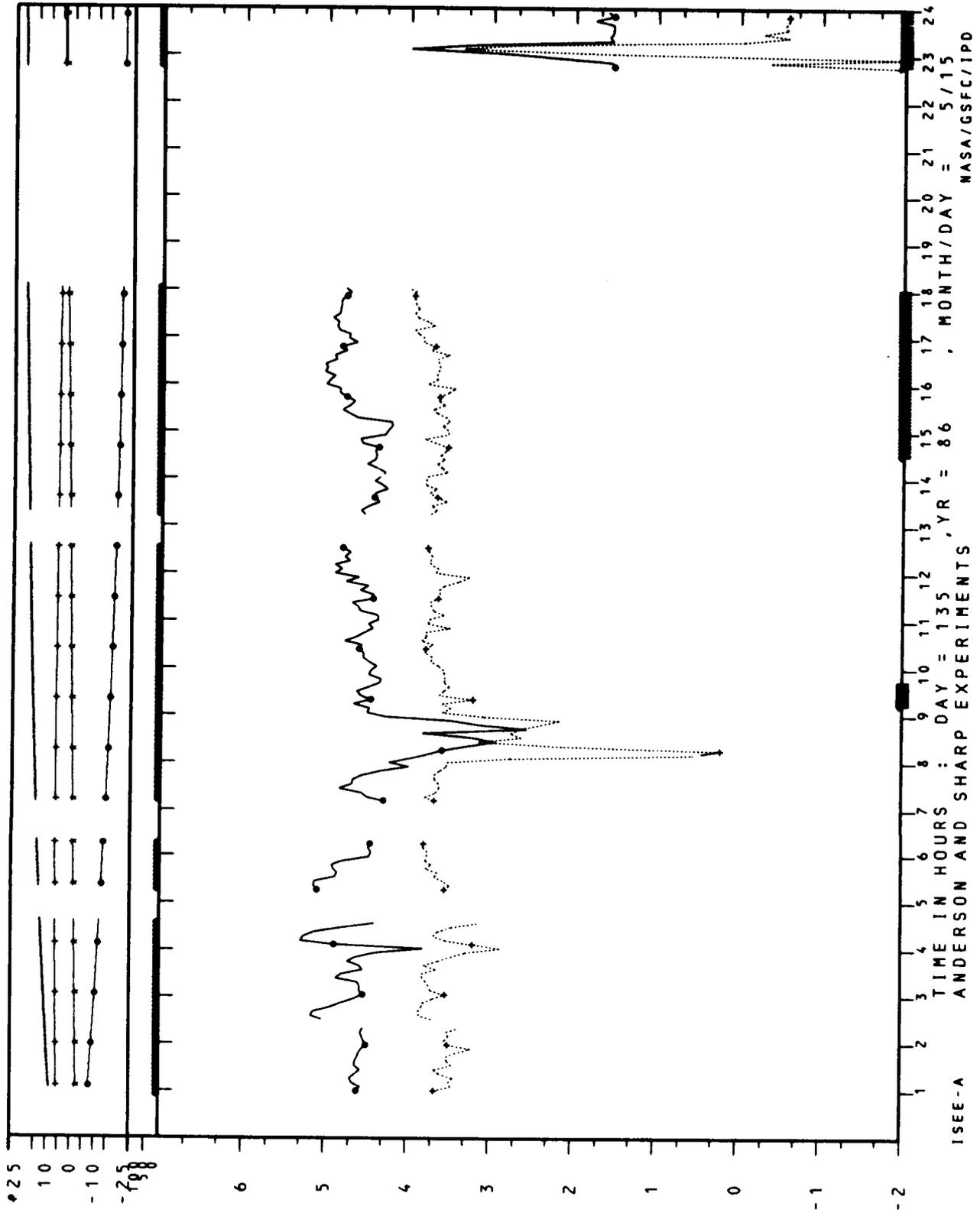


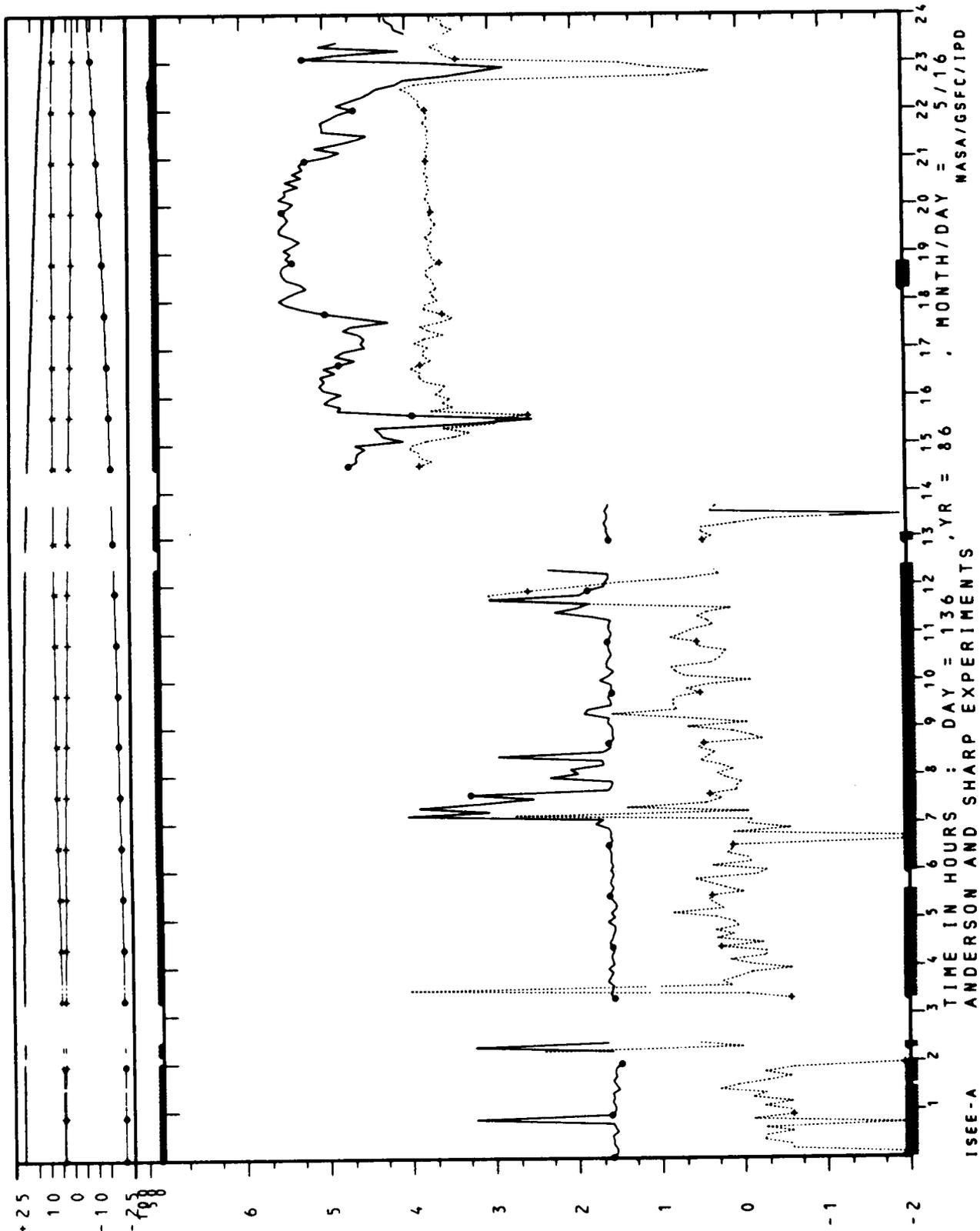


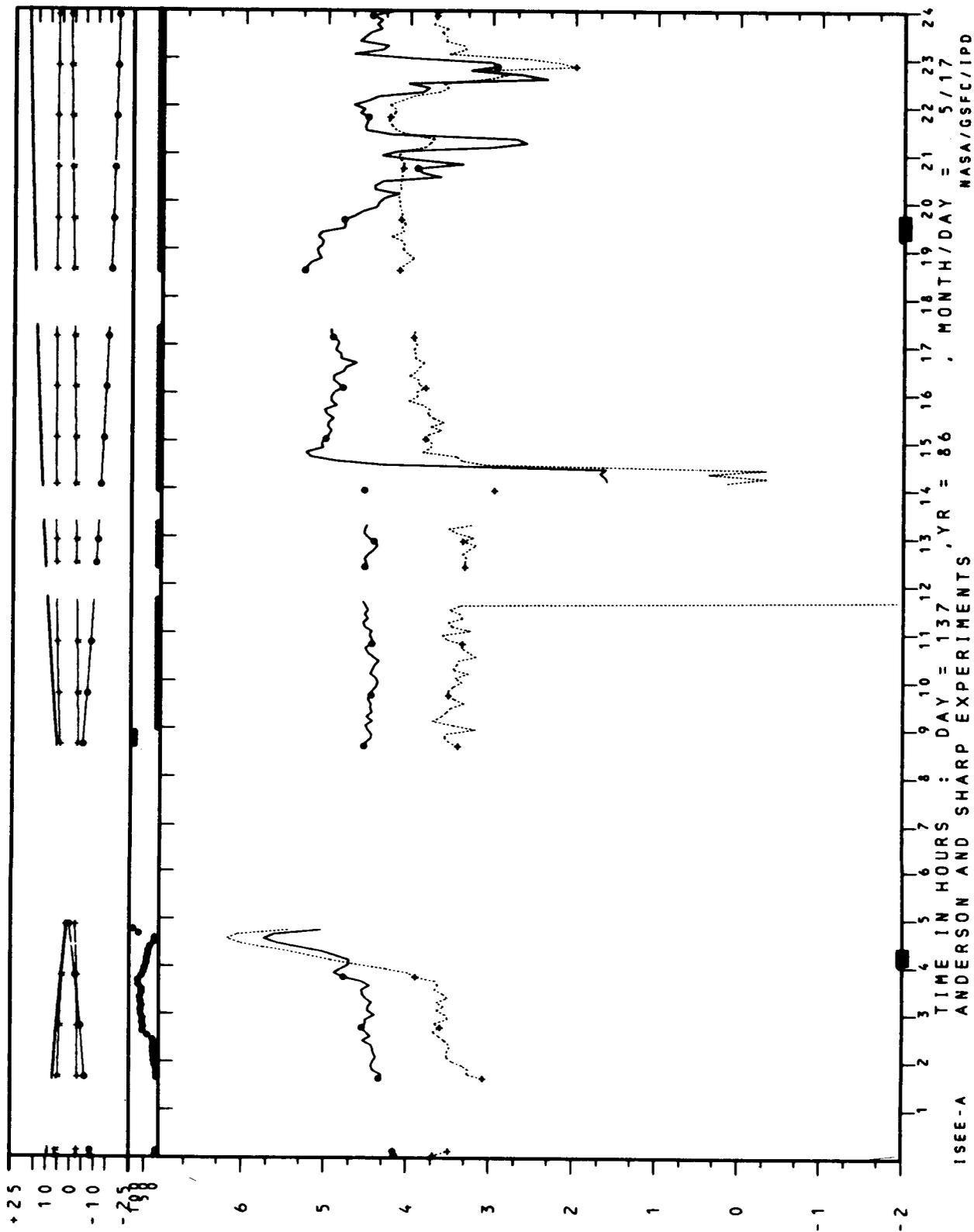
ISEE-A
TIME IN HOURS : DAY = 133 , YR = 86 , MONTH/DAY = 5/13
NASA/GSFC/IPD

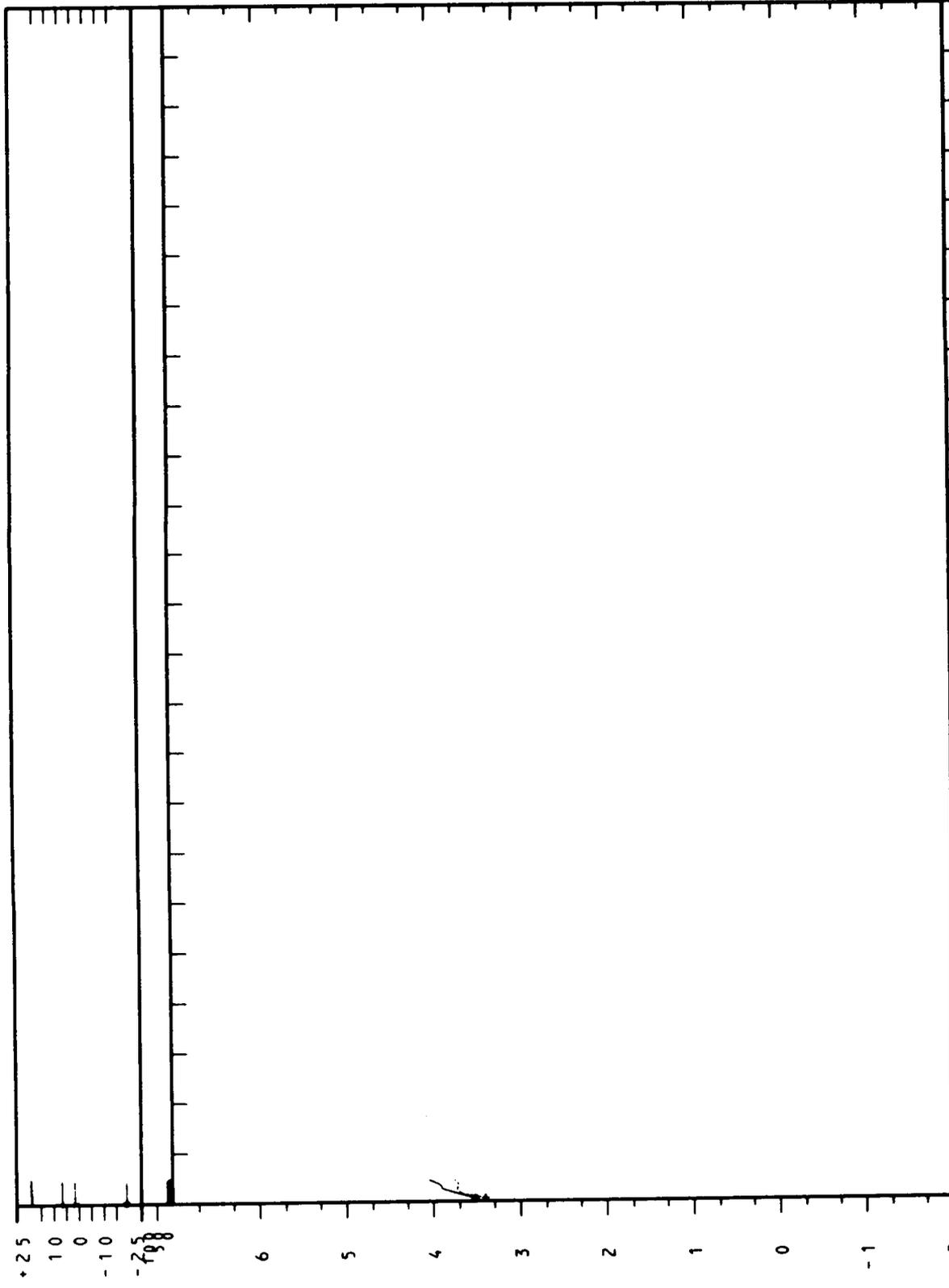


TIME IN HOURS : DAY = 134 , YR = 86 , MONTH/DAY = 5/14
 ANDERSON AND SHARP EXPERIMENTS
 ISEE-A
 NASA/GSFC/IPD

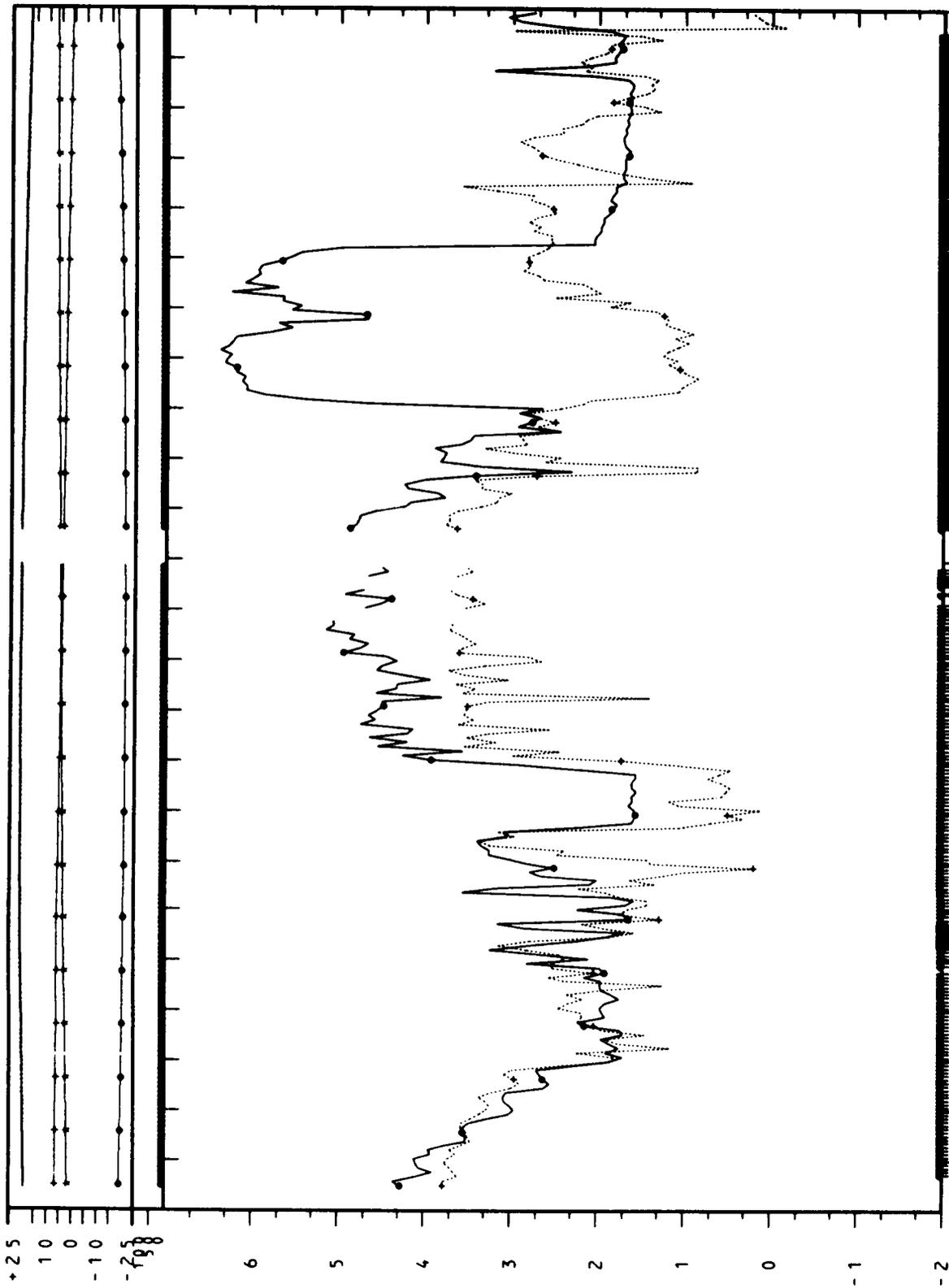




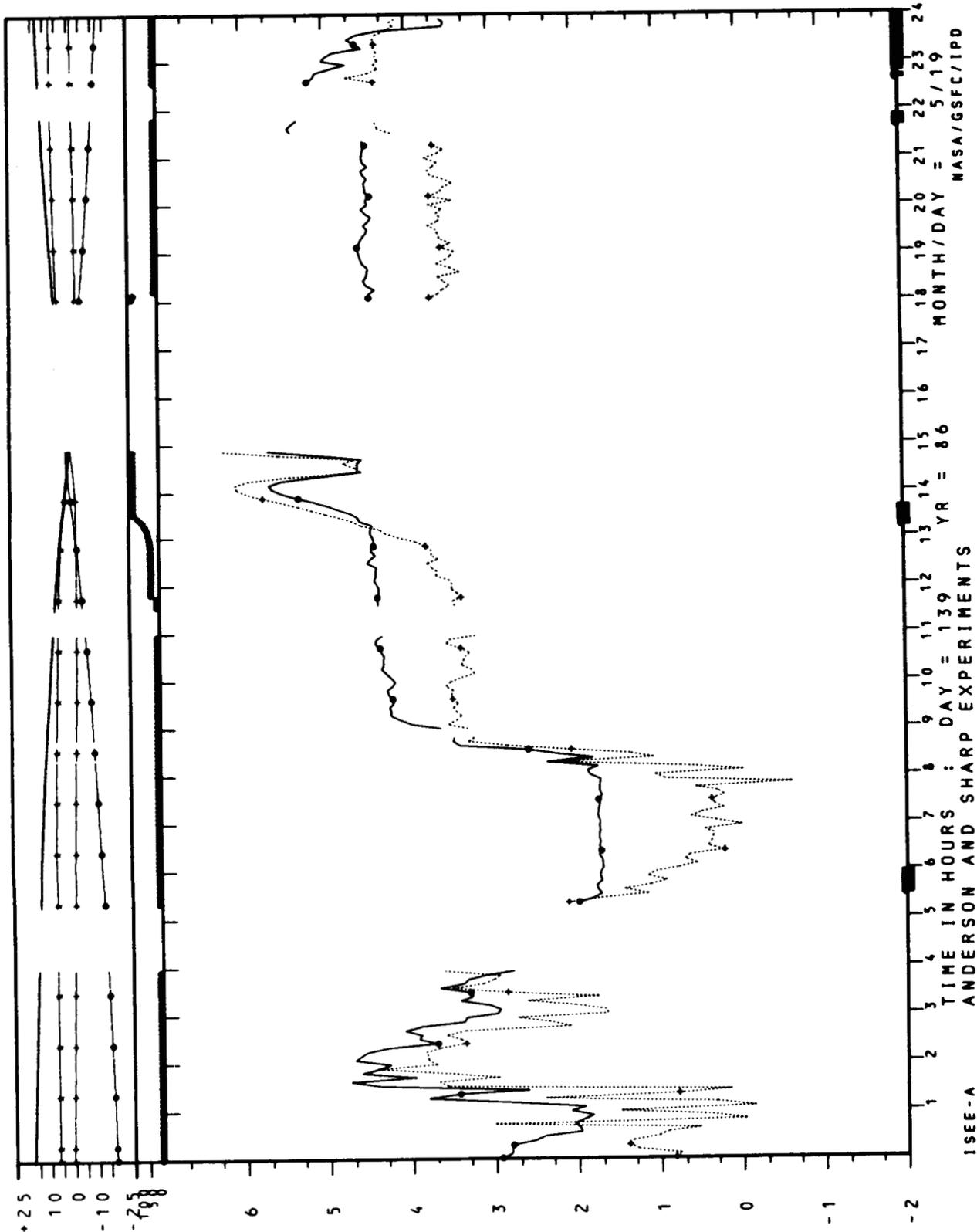


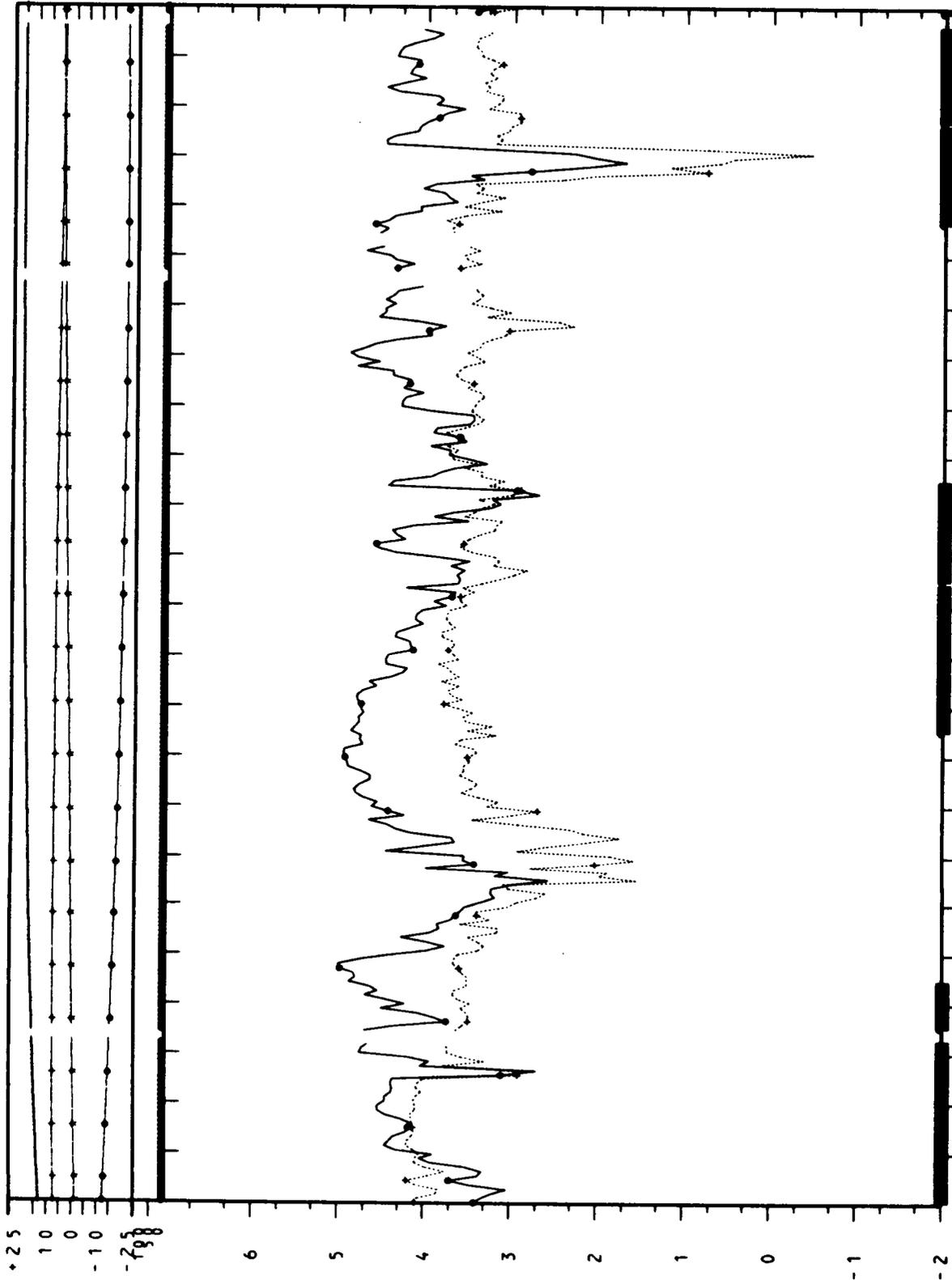


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 TIME IN HOURS : DAY = 138 , YR = 86
 MONTH/DAY = 5/18
 NASA/GSFC/IPD
 ISEE-A

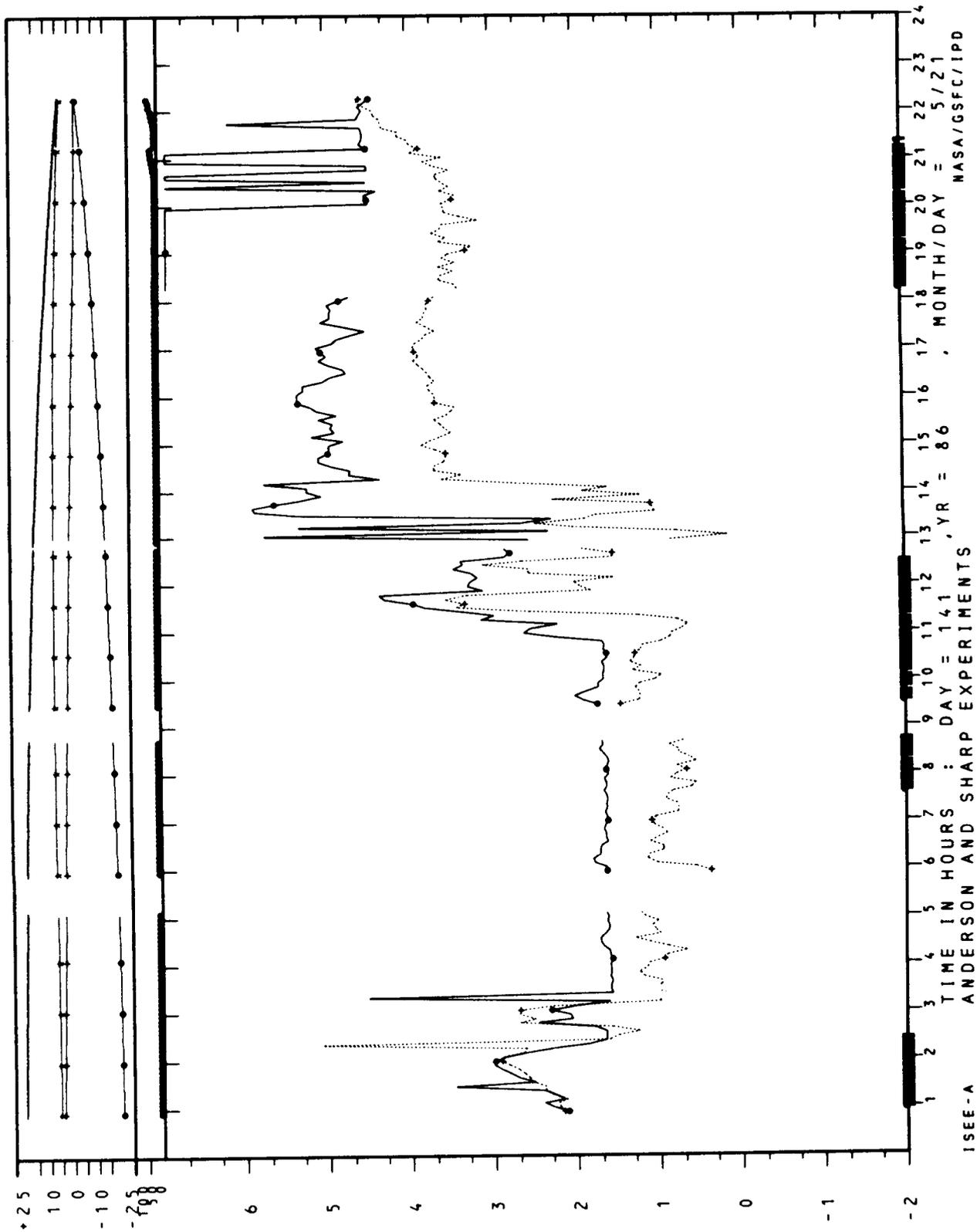


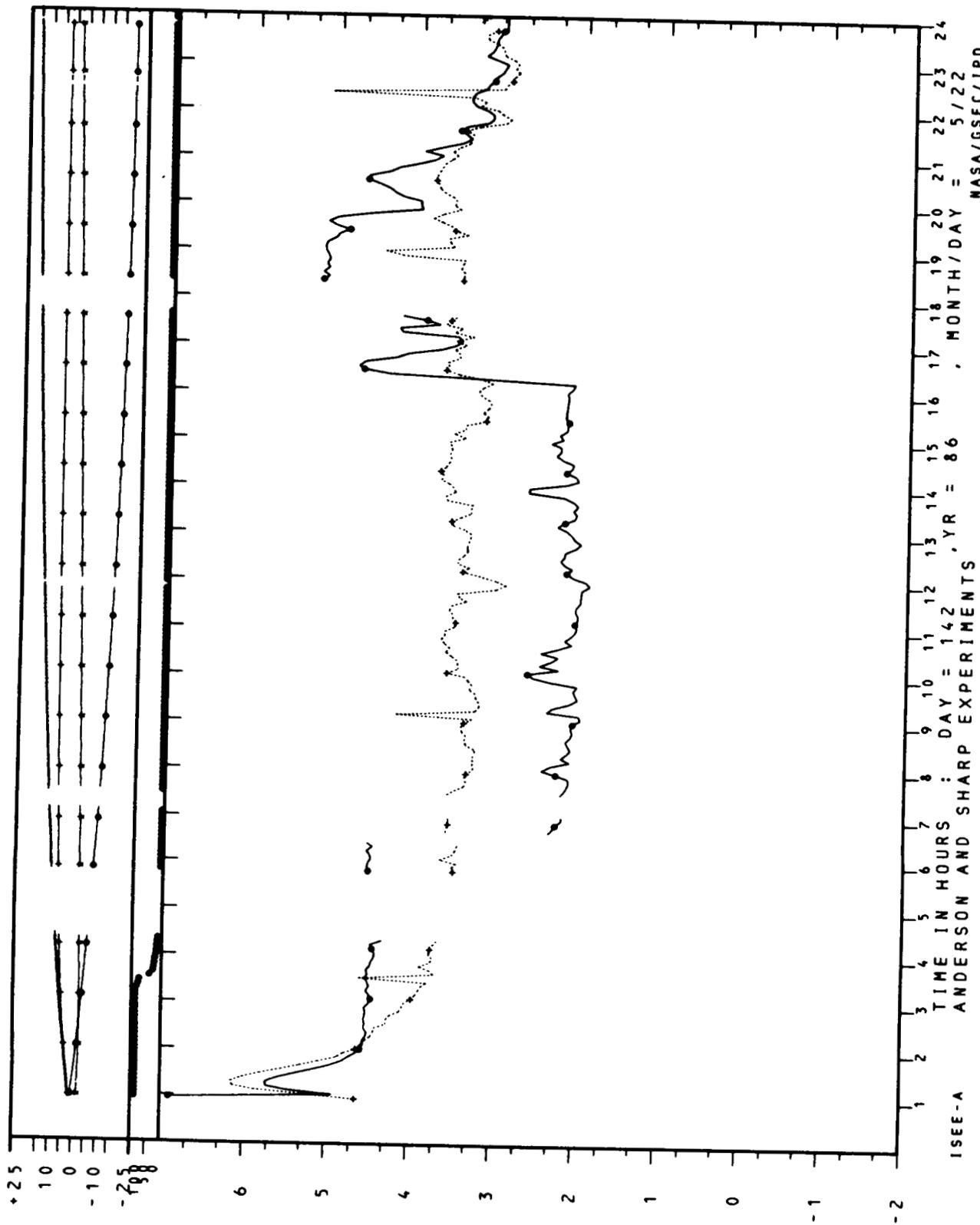
ISEE-A
 ANDERSON AND SHARP EXPERIMENTS
 TIME IN HOURS : DAY = 138 , YR = 86
 MONTH/DAY = 5/18
 NASA/GSFC/IPD

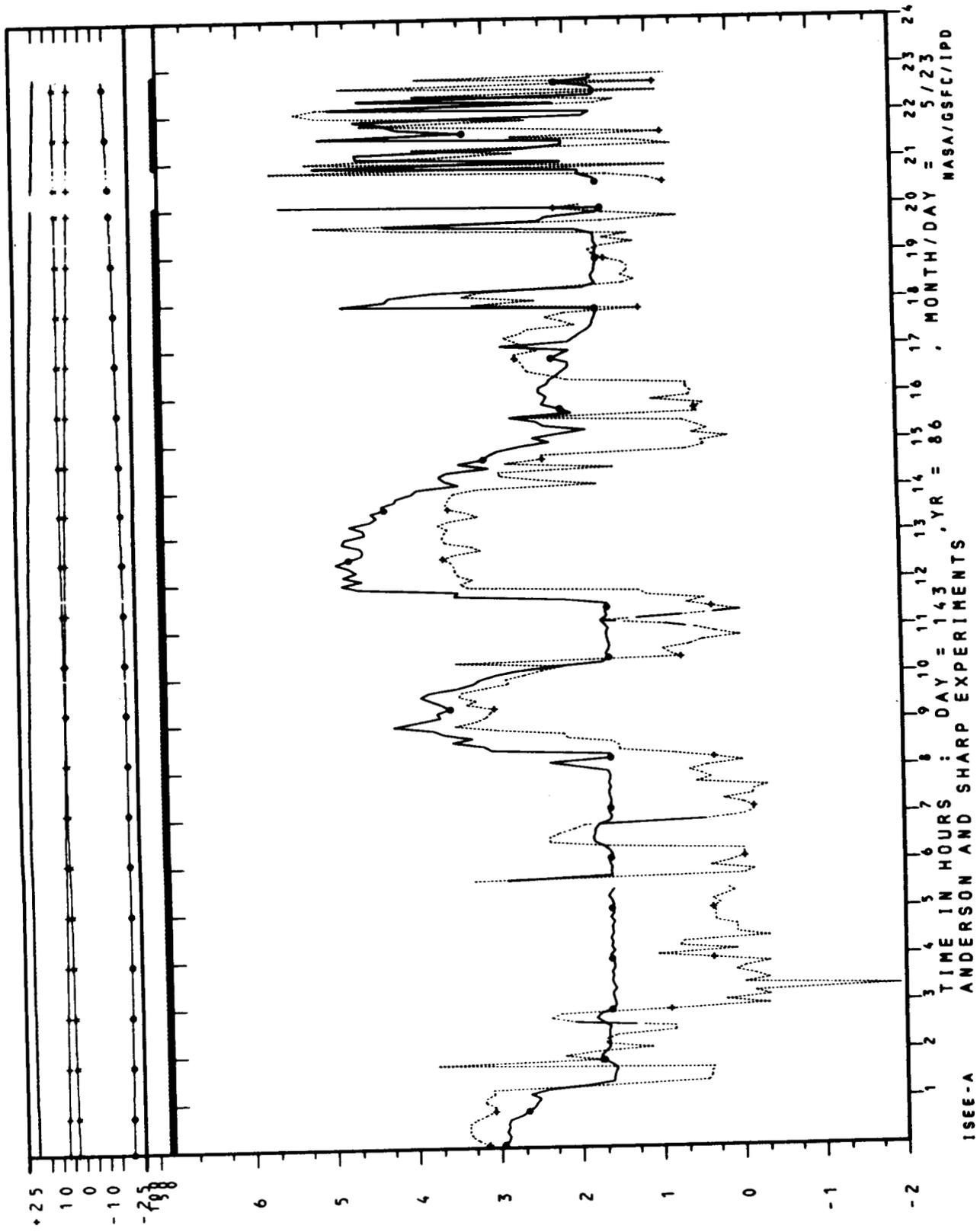


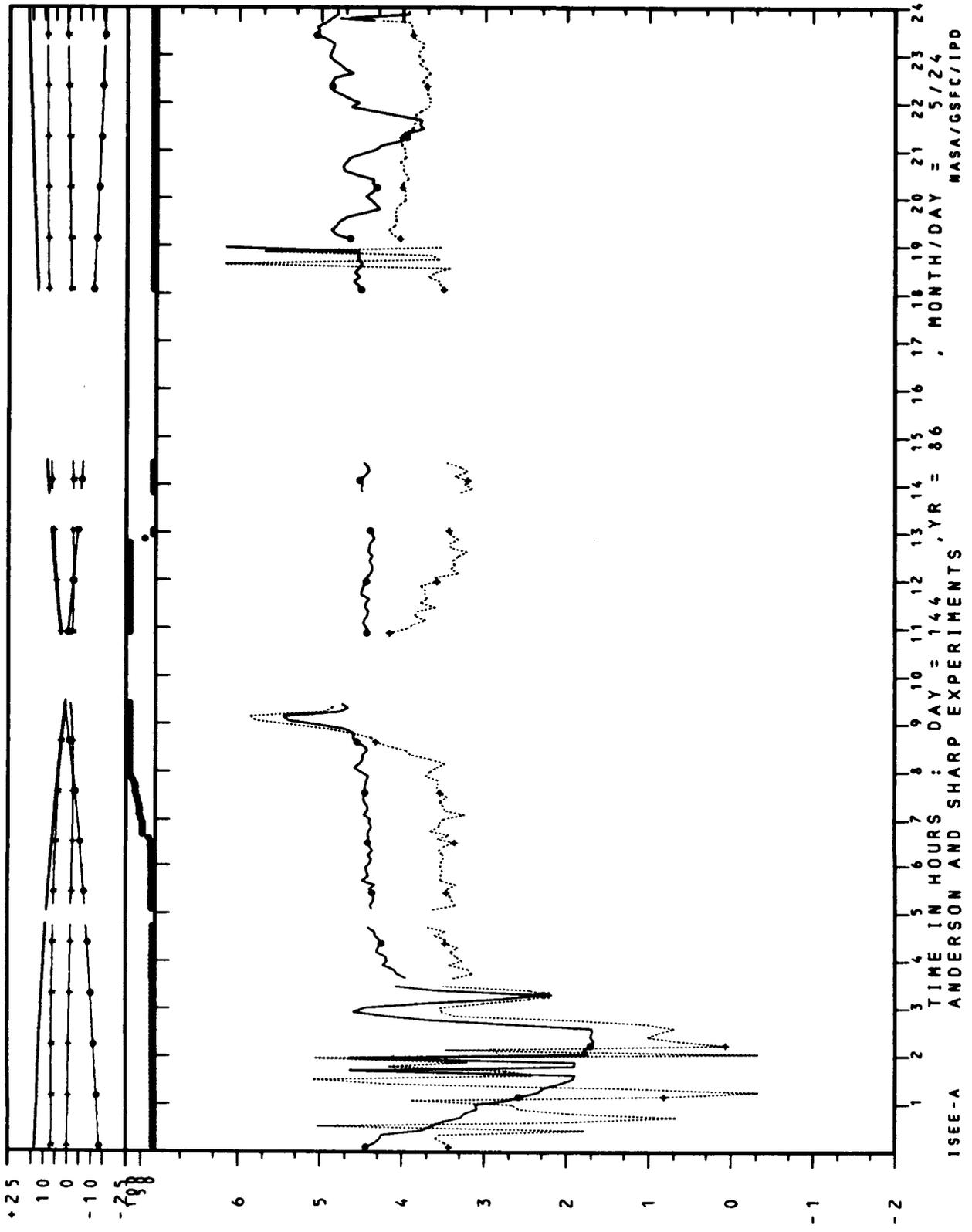


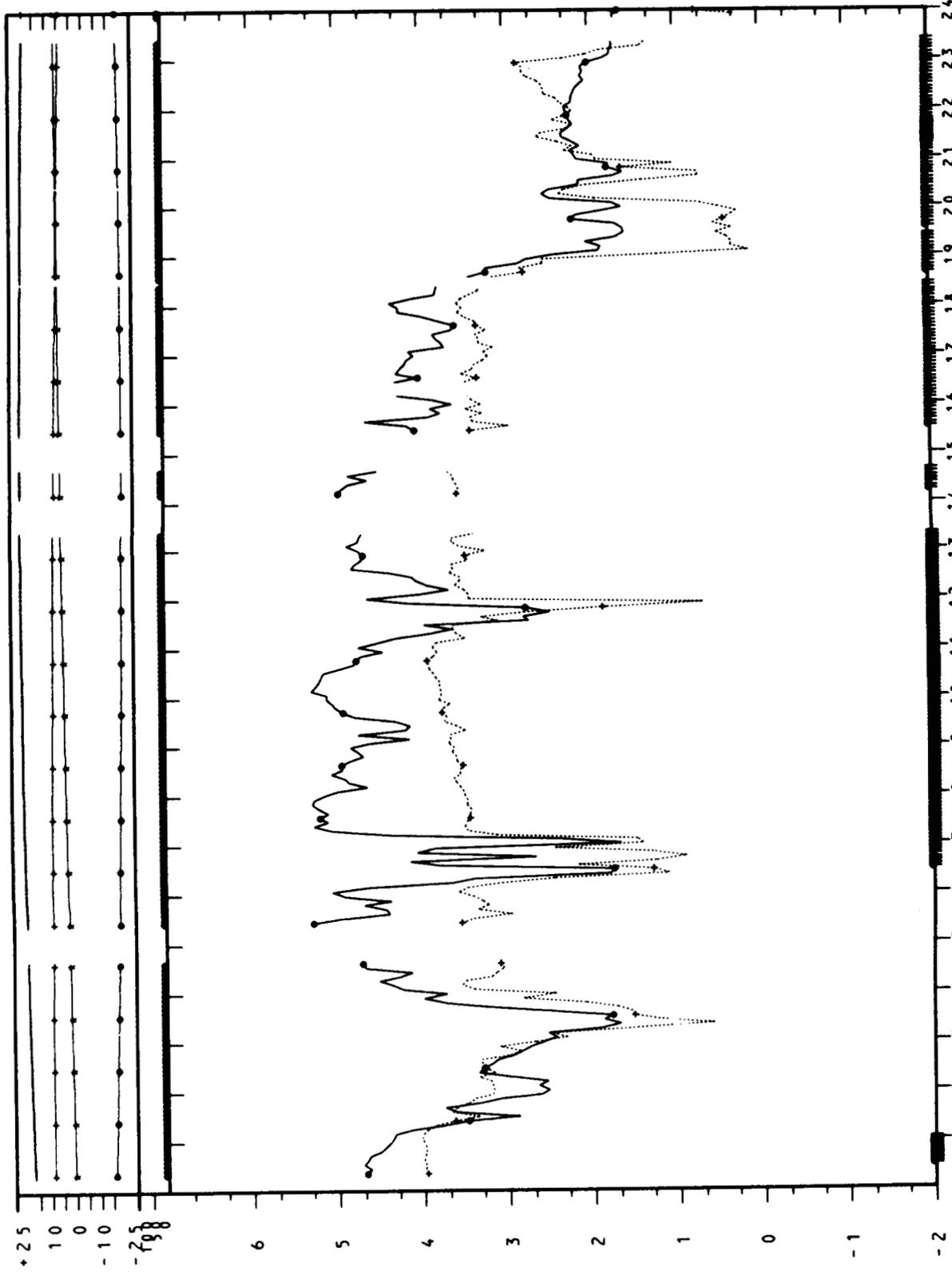
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 TIME IN HOURS : DAY = 140 , YR = 86 , MONTH/DAY = 5/20
 ANDERSON AND SHARP EXPERIMENTS
 ISEE-A NASA/GSFC/IPD



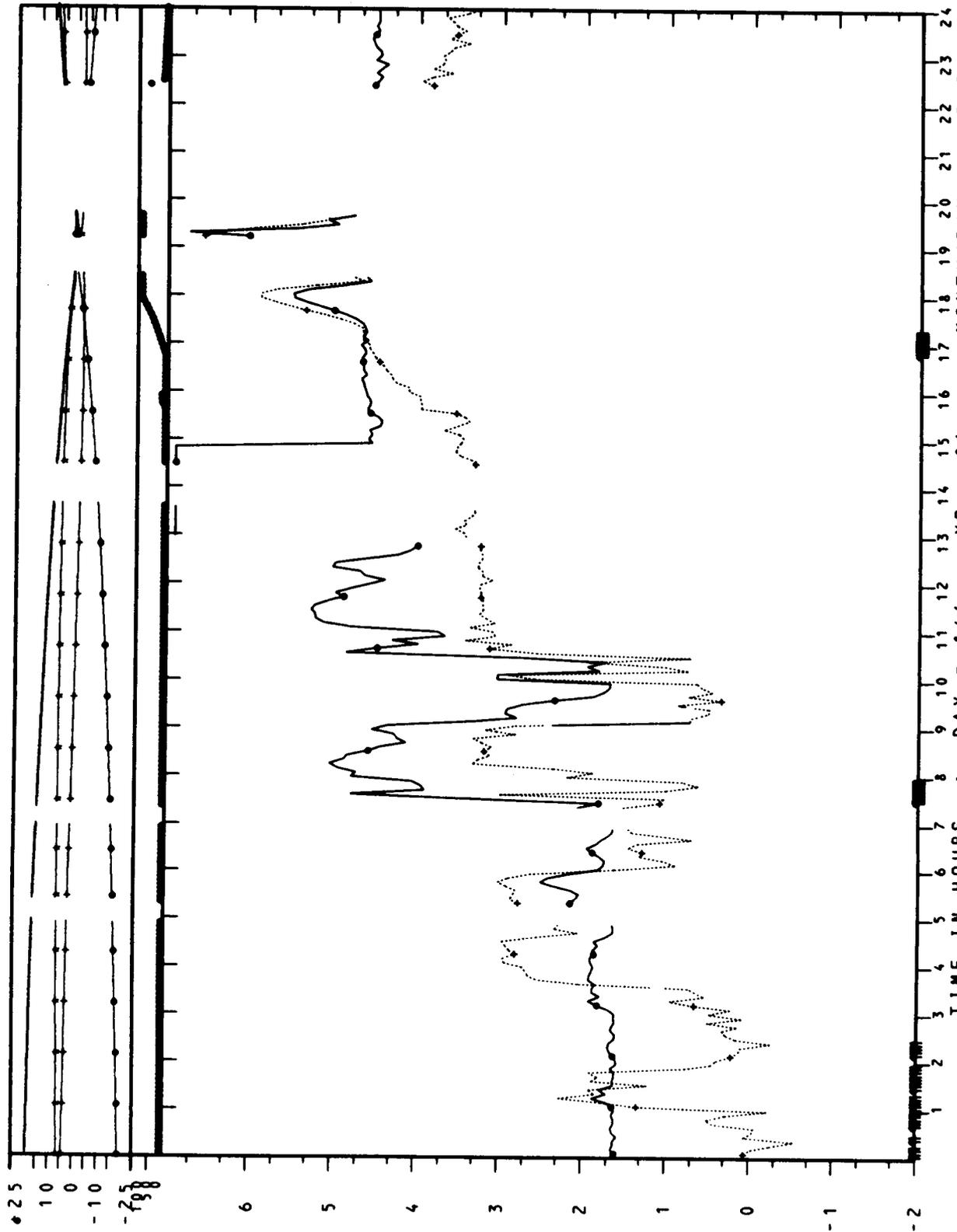


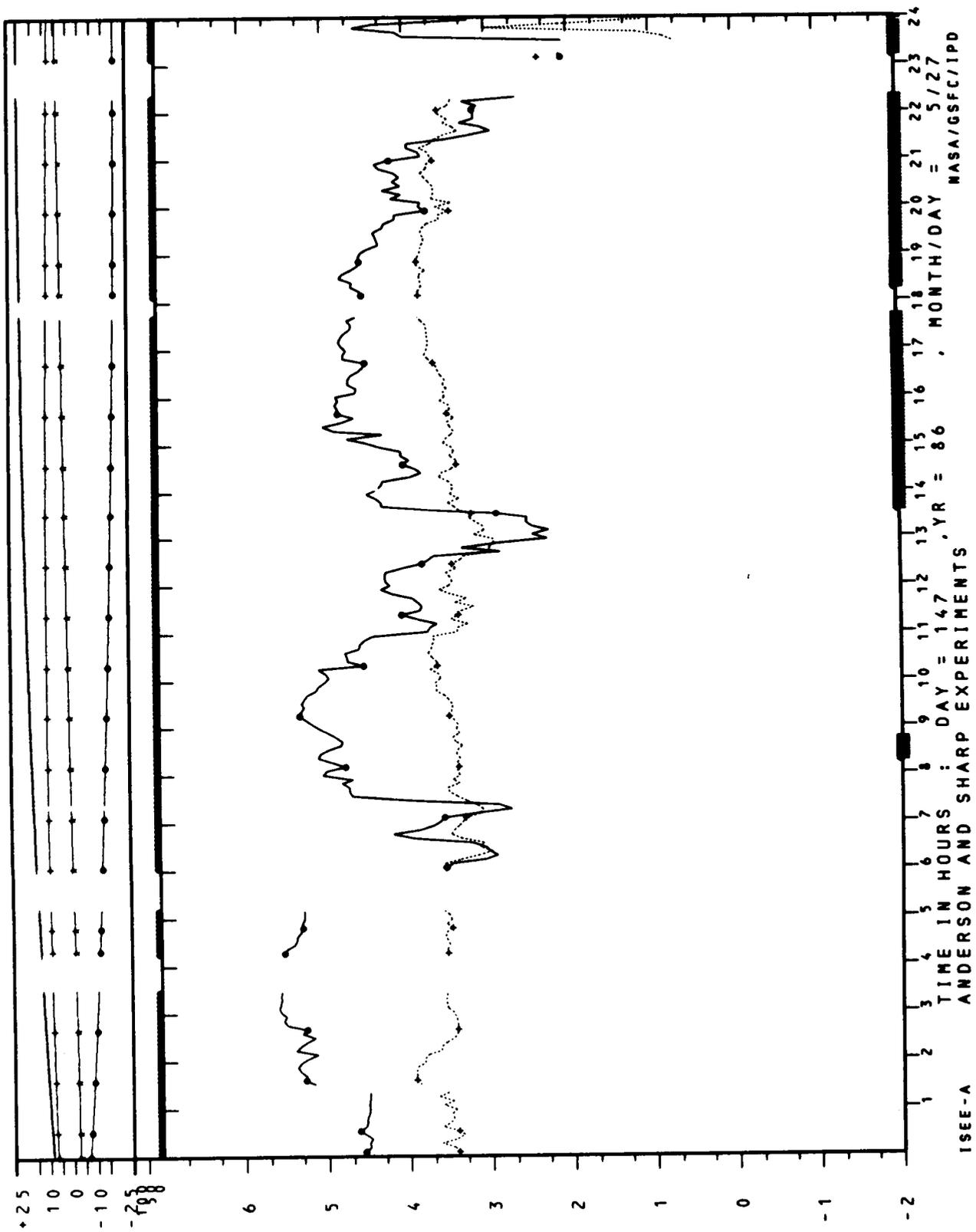


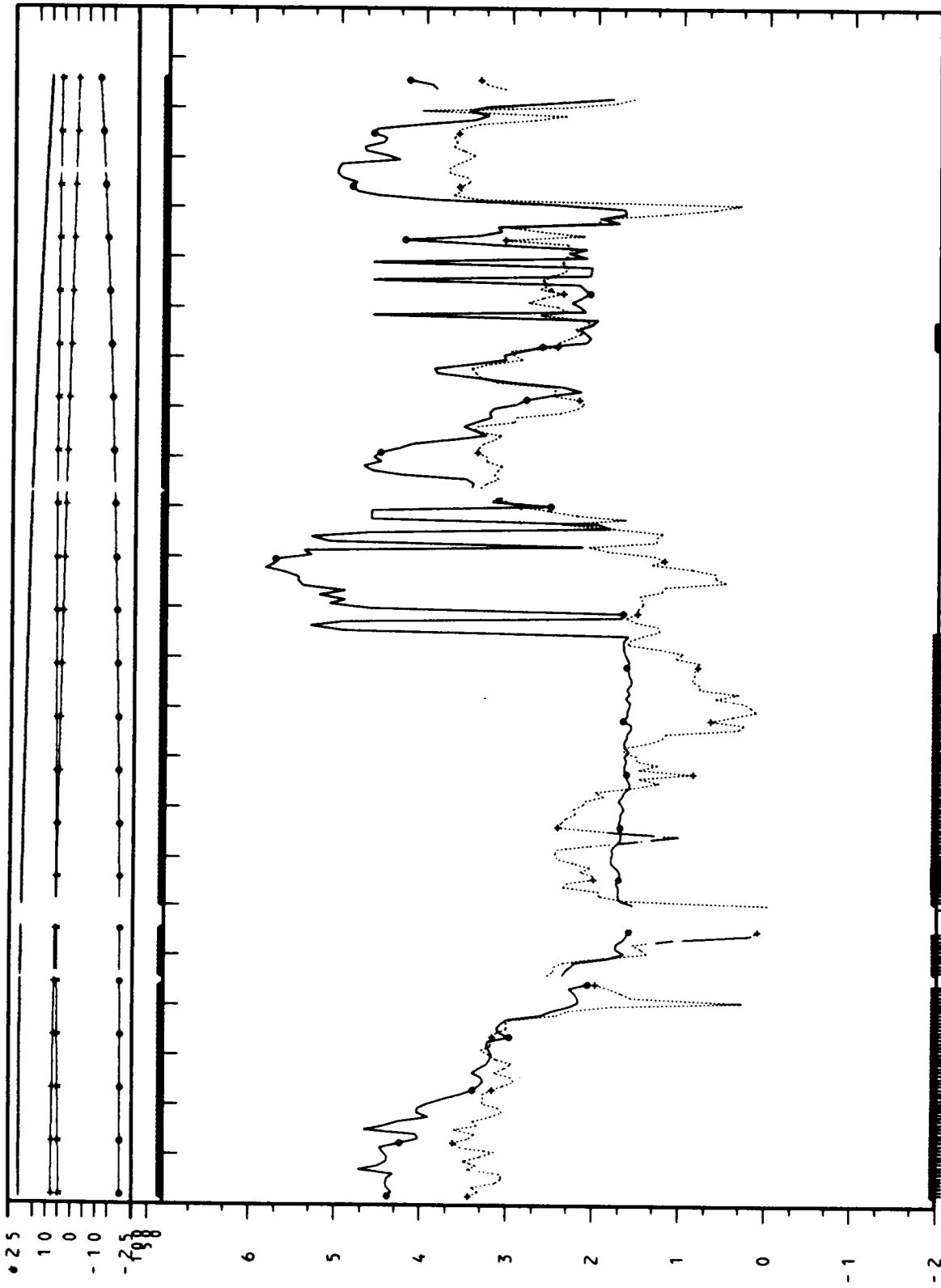




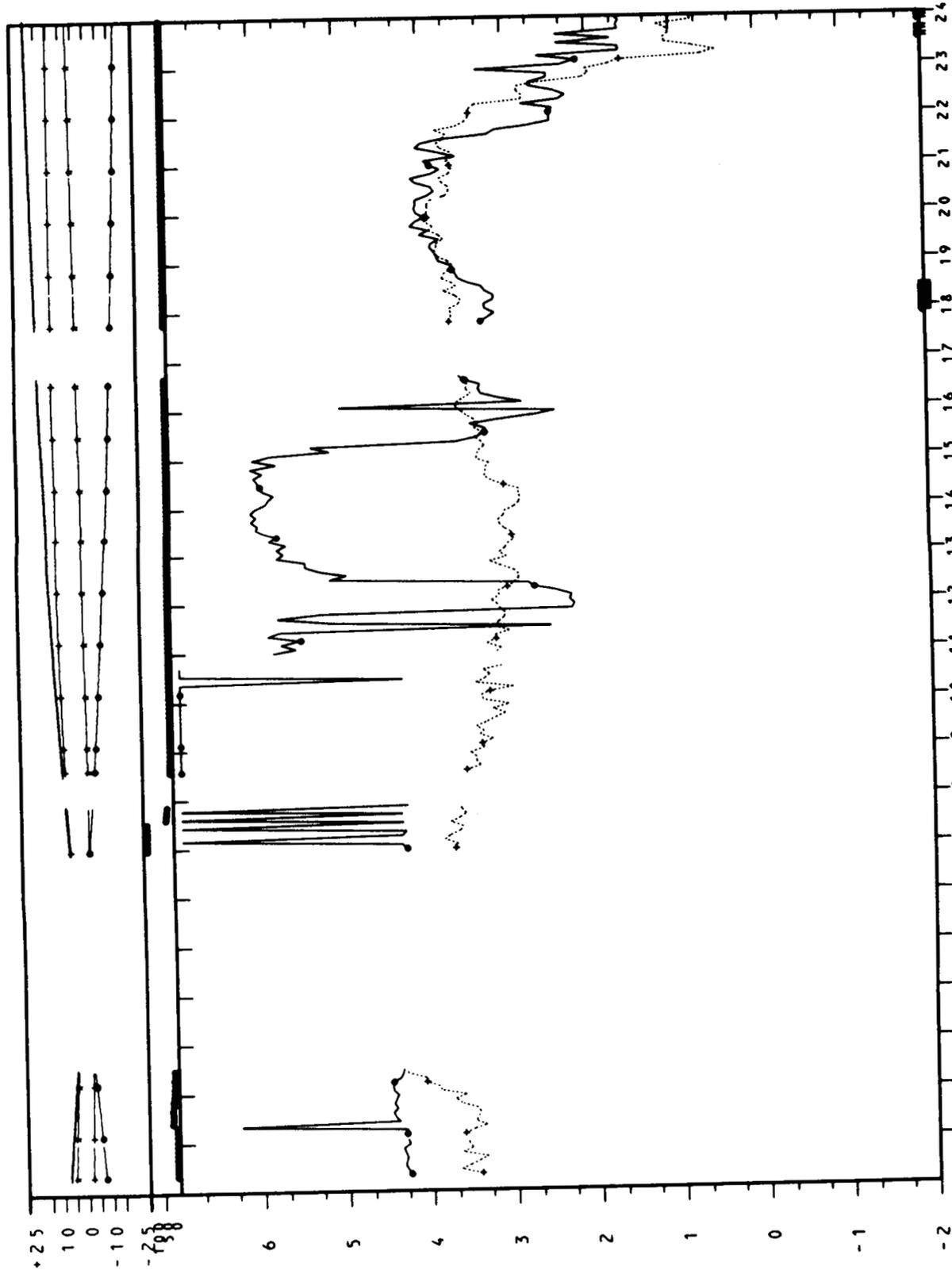
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 ANDERSON AND SHARP EXPERIMENTS
 TIME IN HOURS : DAY = 145 , YR = 86
 MONTH/DAY = 5/25
 NASA/GSFC/IPD





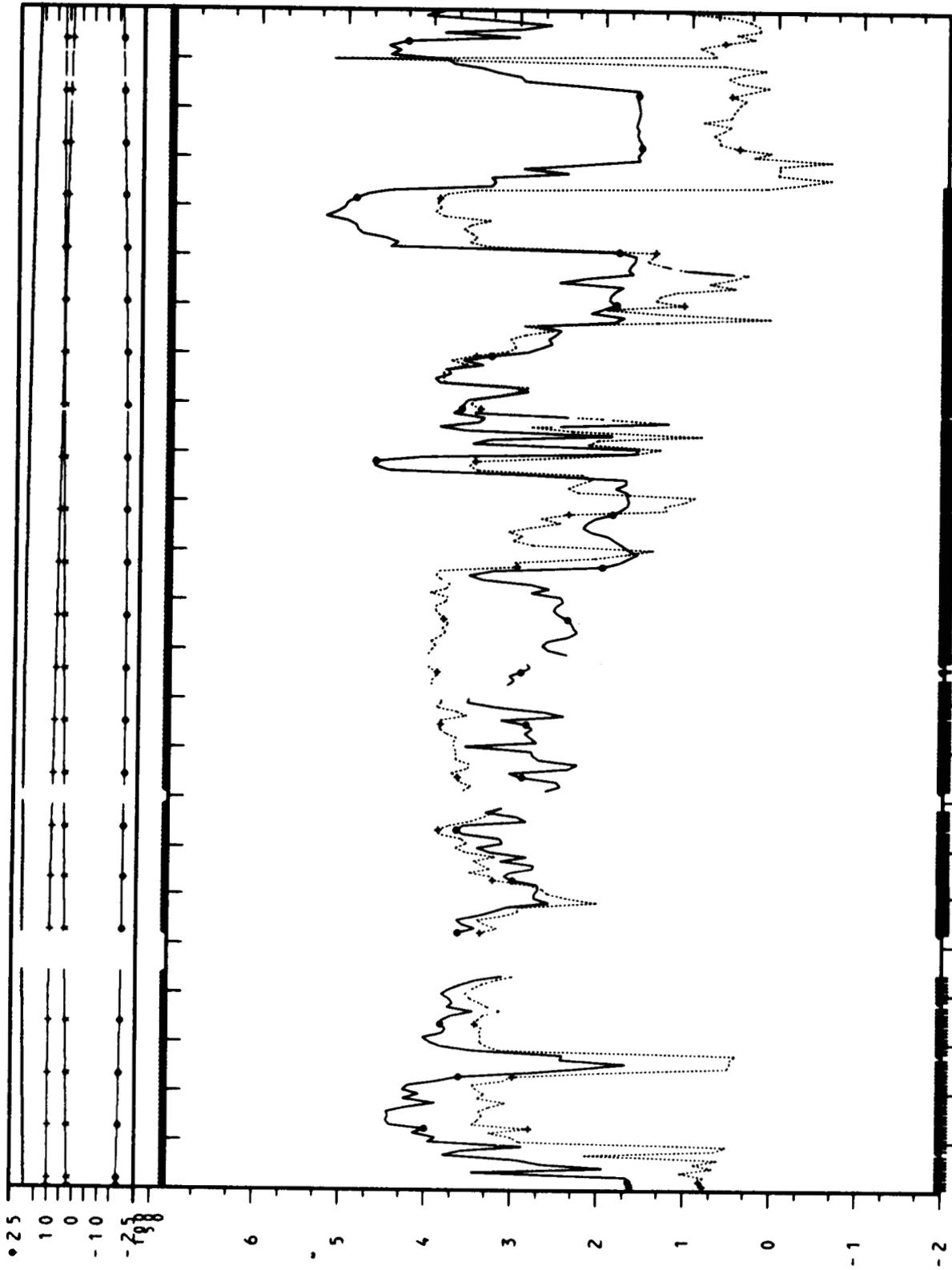


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 ANDERSON AND SHARP EXPERIMENTS
 TIME IN HOURS : DAY = 148 , YR = 86 , MONTH/DAY = 5/28
 NASA/GSFC/IPD

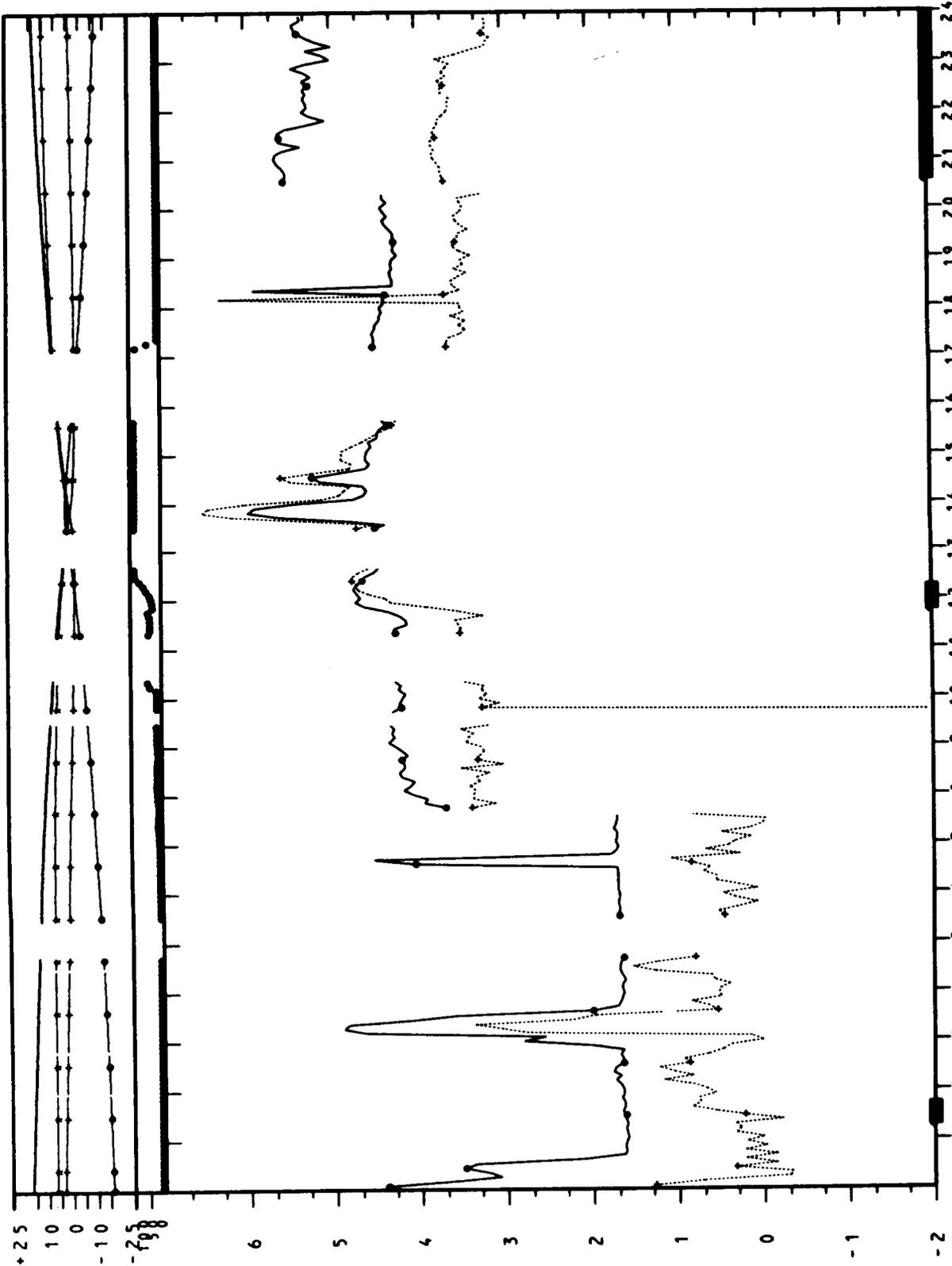


TIME IN HOURS : DAY = 149 , YR = 86 , MONTH/DAY = 5/29
 ANDERSON AND SHARP EXPERIMENTS
 NASA/GSFC/IPD

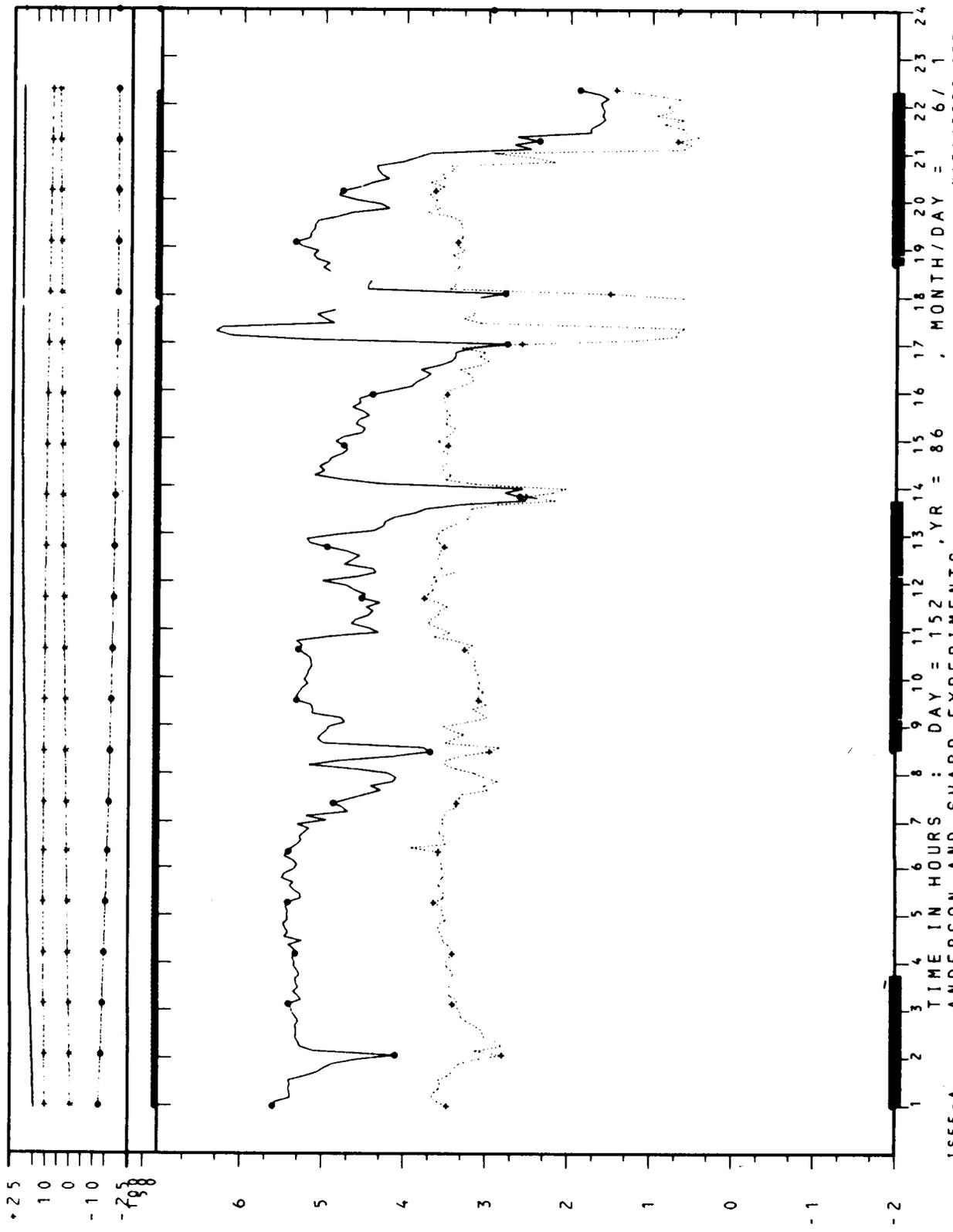
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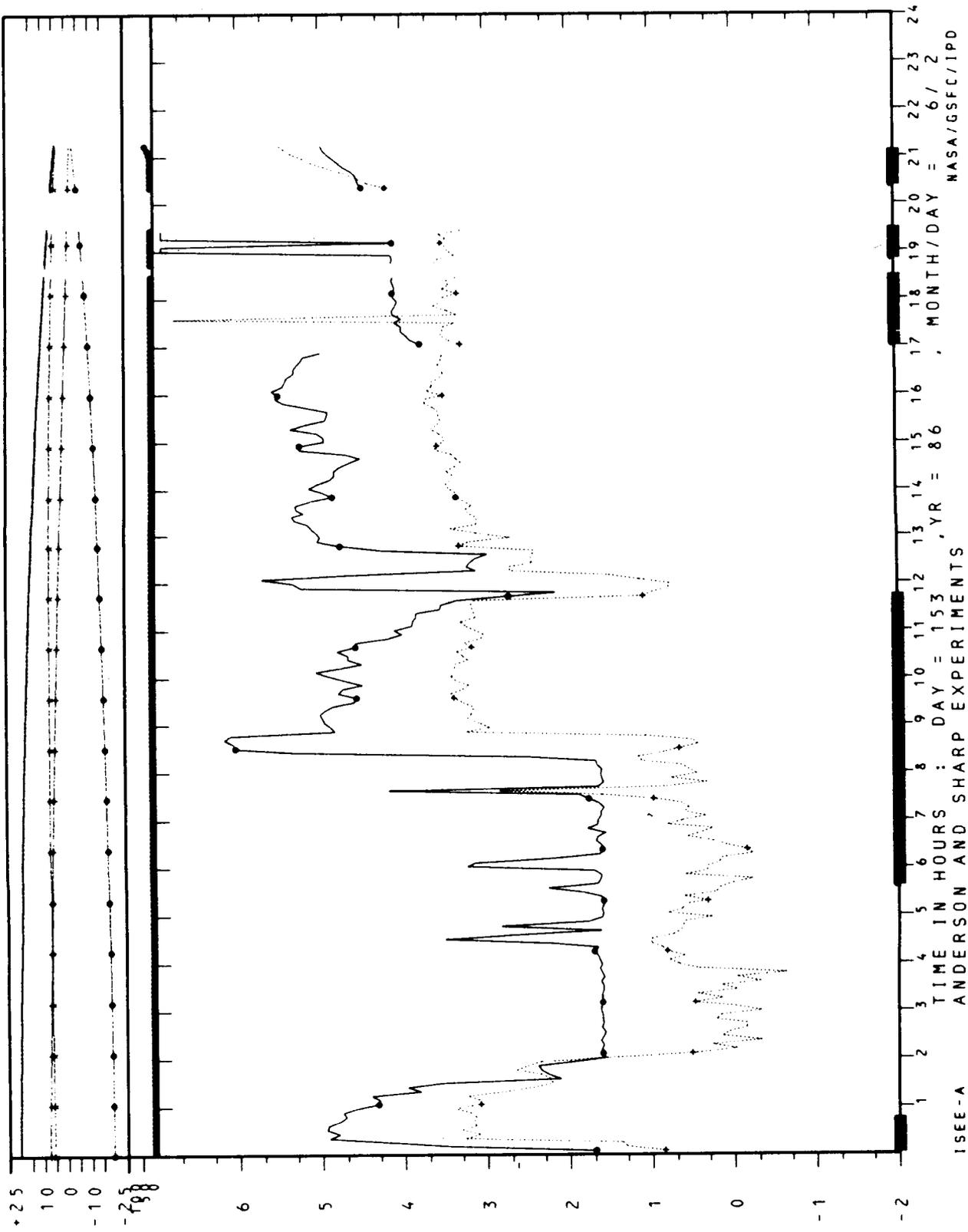


ISEE-A
 ANDERSON AND SHARP EXPERIMENTS
 TIME IN HOURS : DAY = 150 , YR = 86 , MONTH/DAY = 5/30
 NASA/GSFC/IPD



ISEE-A
 ANDERSON AND SHARP EXPERIMENTS
 TIME IN HOURS : DAY = 151 , YR = 86
 MONTH/DAY = 5/31
 NASA/GSFC/IPD





ISEE-A

ANDERSON AND SHARP EXPERIMENTS

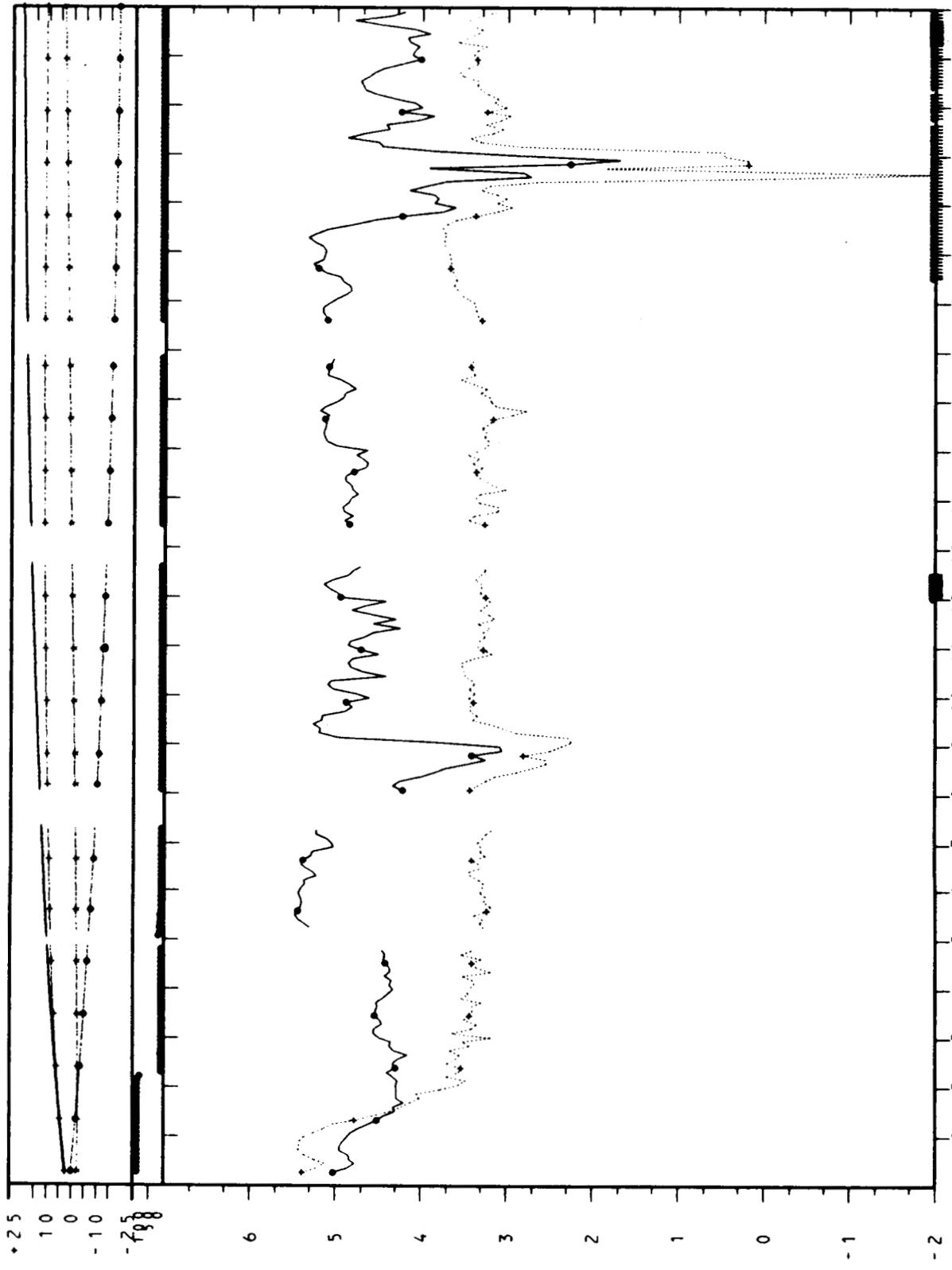
DAY = 153

YR = 86

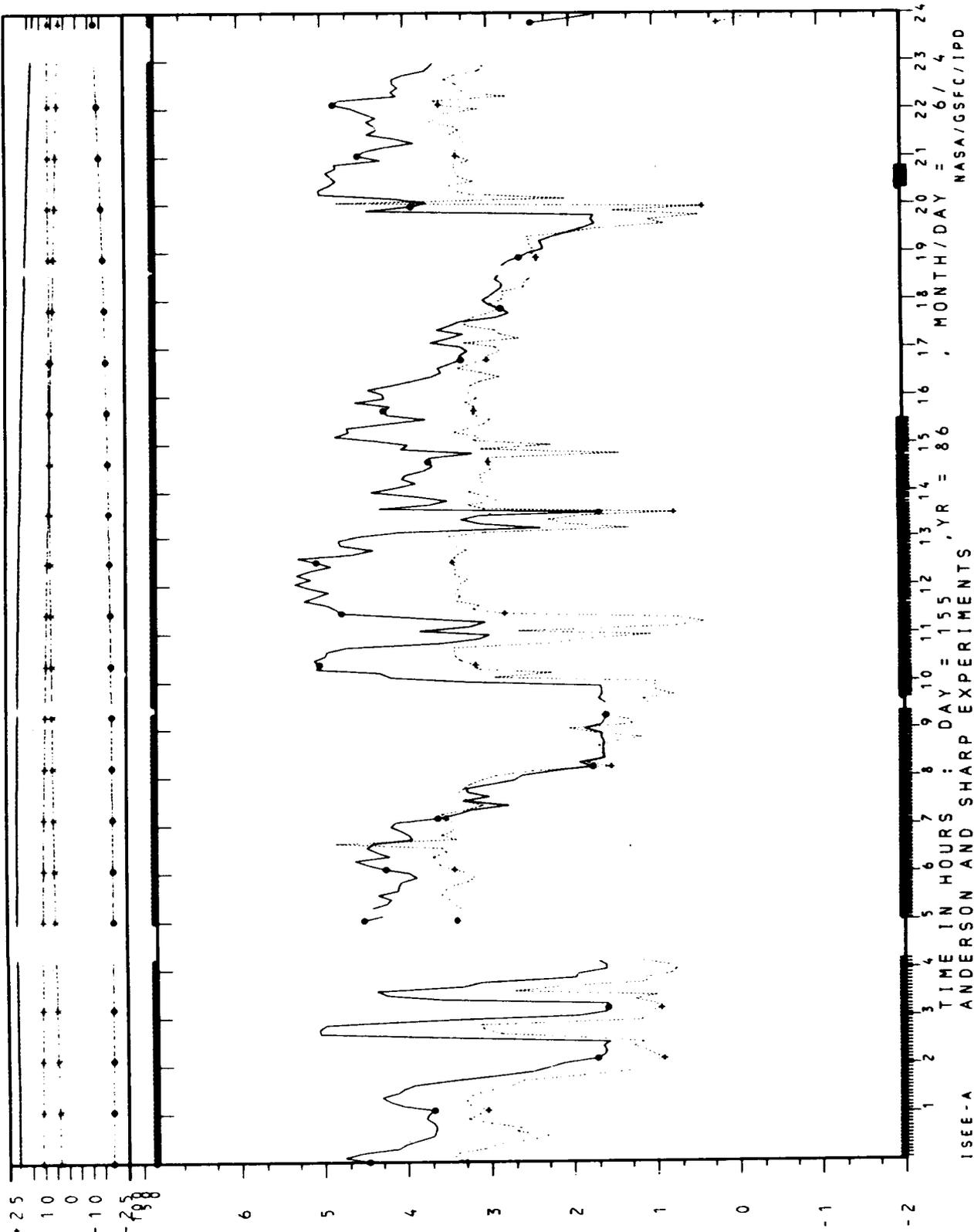
MONTH/DAY =

6/2

NASA/GSFC/IPD



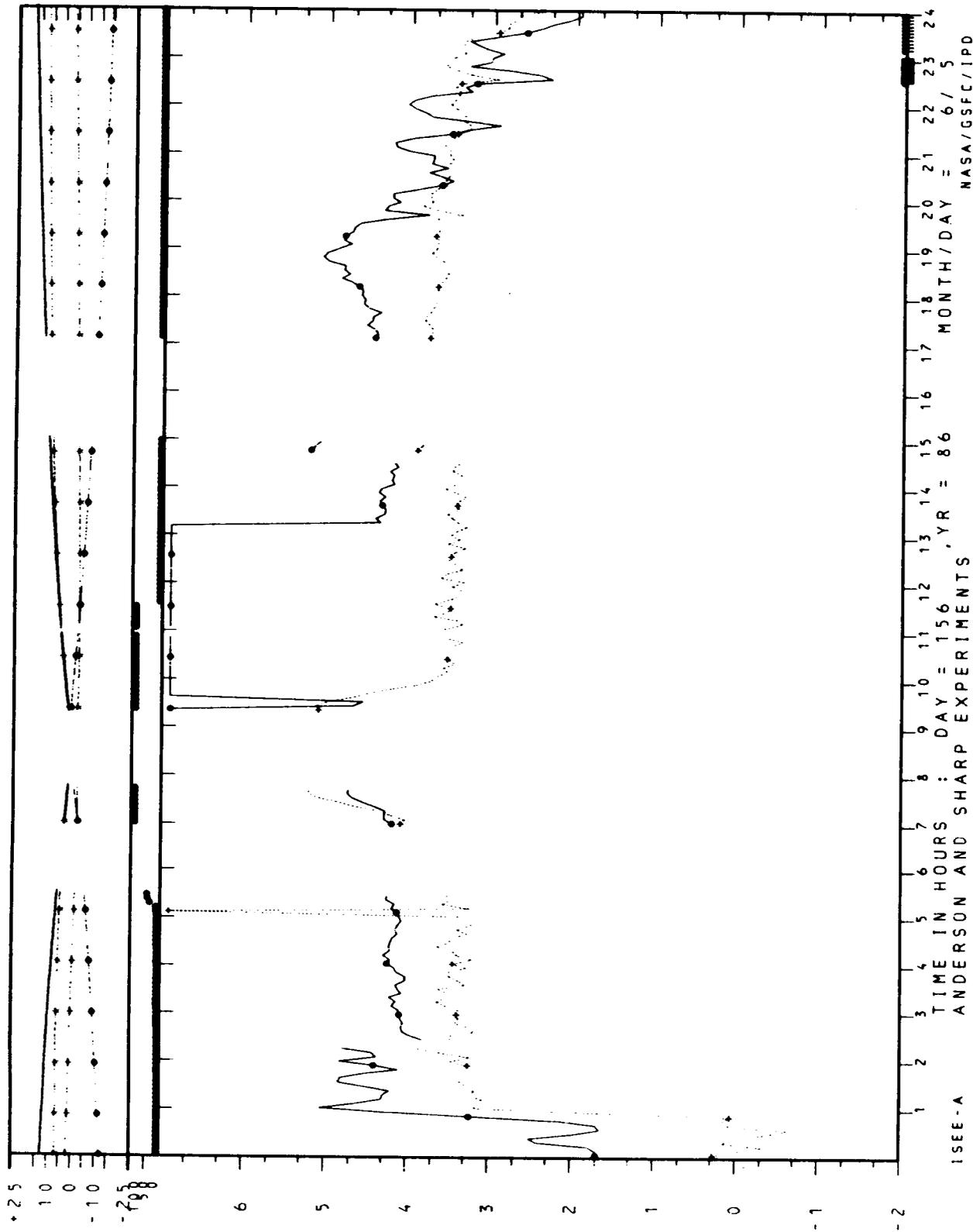
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 ANDERSON AND SHARP EXPERIMENTS
 DAY = 154, YR = 86, MONTH/DAY = 6/3
 NASA/GSFC/IPD

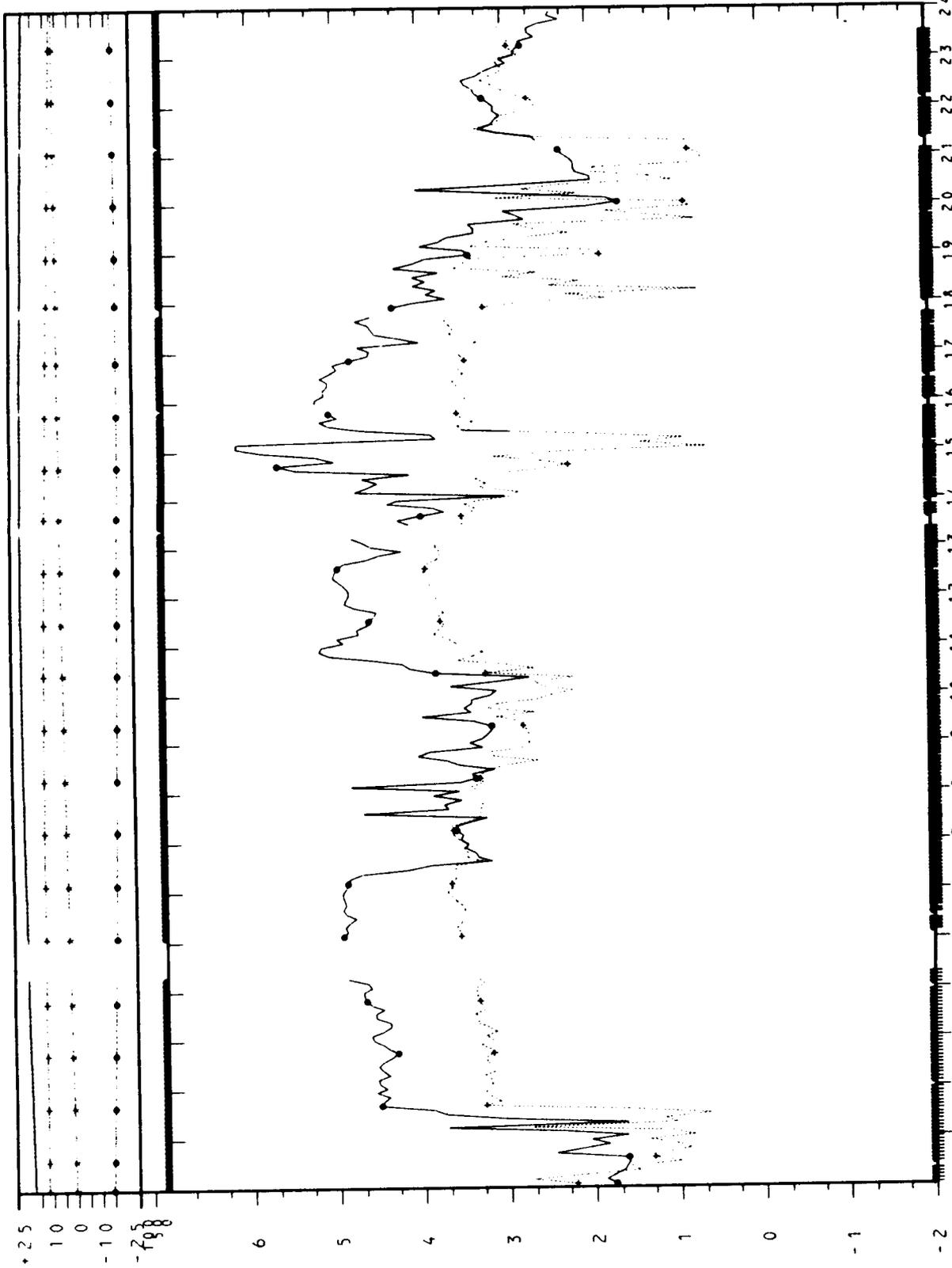


TIME IN HOURS : DAY = 155 , YR = 86 , MONTH/DAY = 6 / 4
 NASA/GSFC/IPD

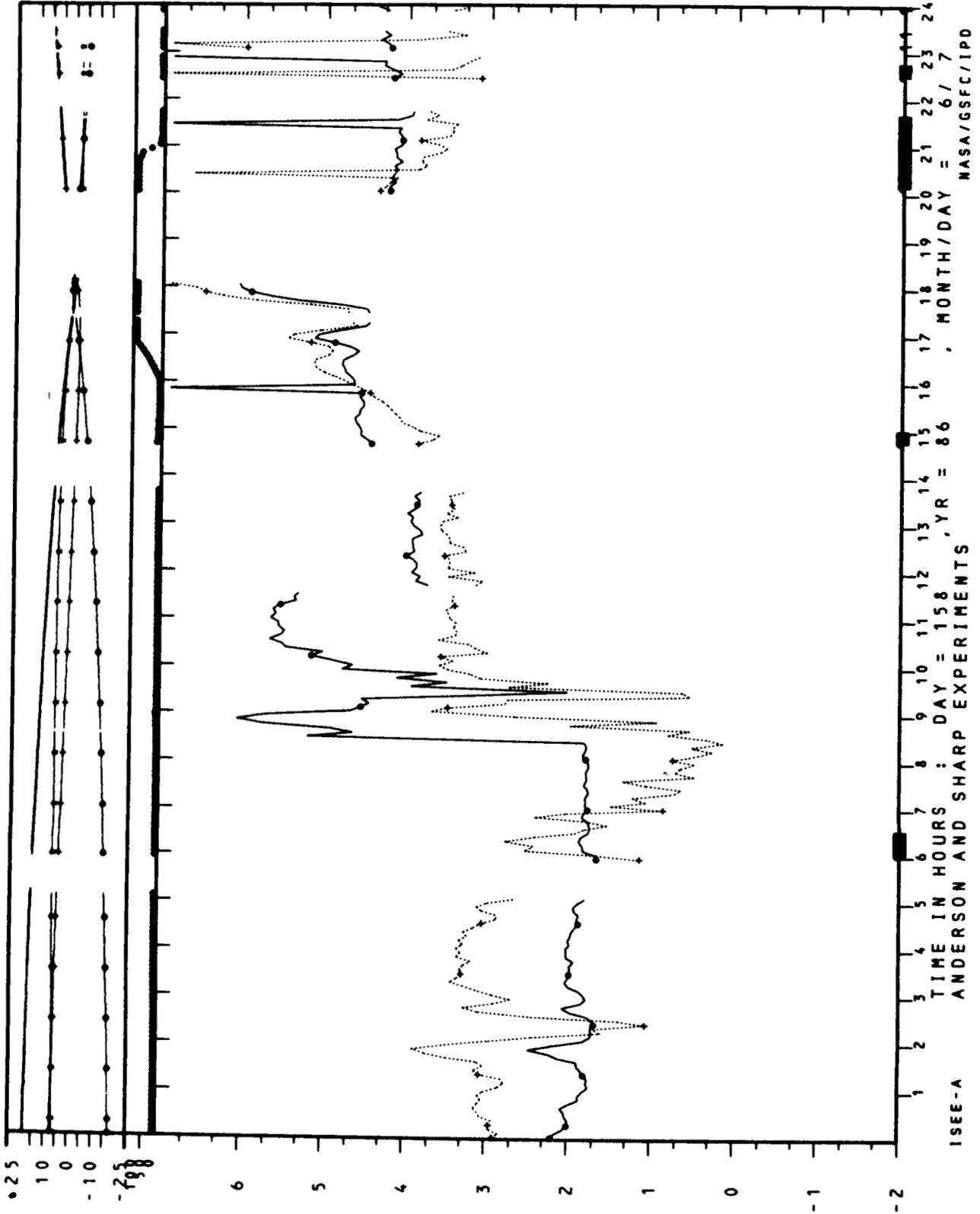
ANDERSON AND SHARP EXPERIMENTS

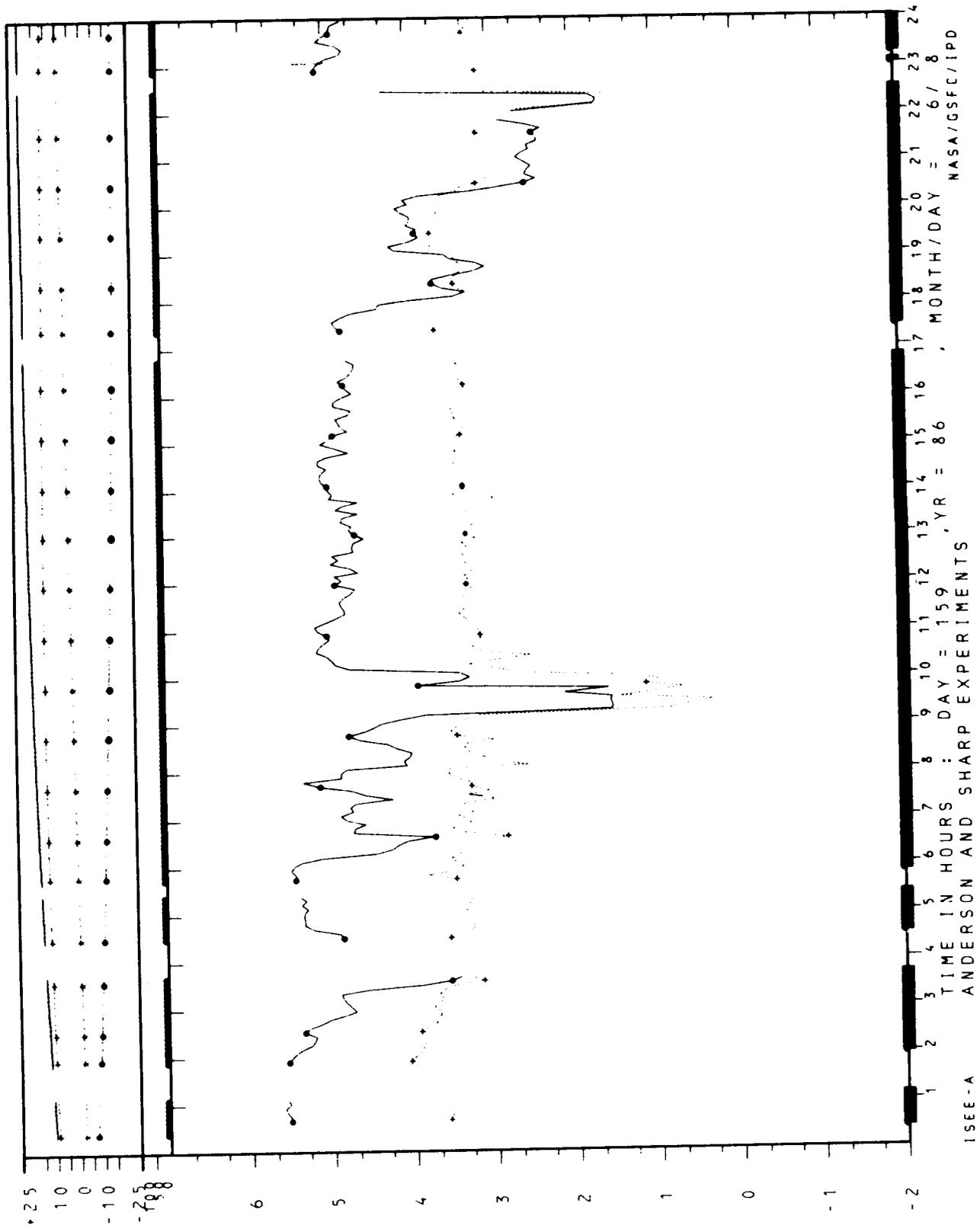
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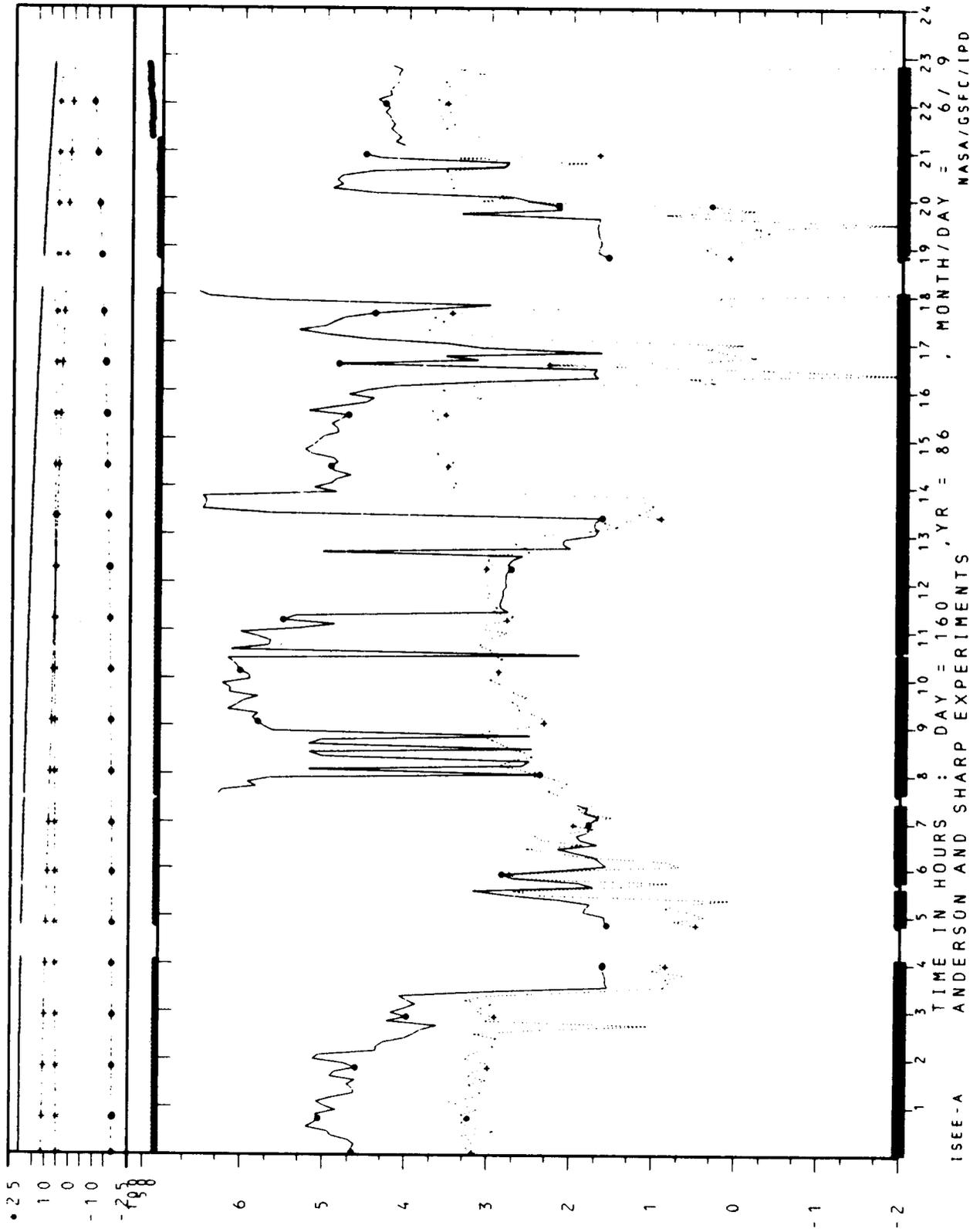




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 ANDERSON AND SHARP EXPERIMENTS
 TIME IN HOURS : DAY = 157 , YR = 86
 MONTH/DAY = 6 / 6
 NASA/GSFC/IPD

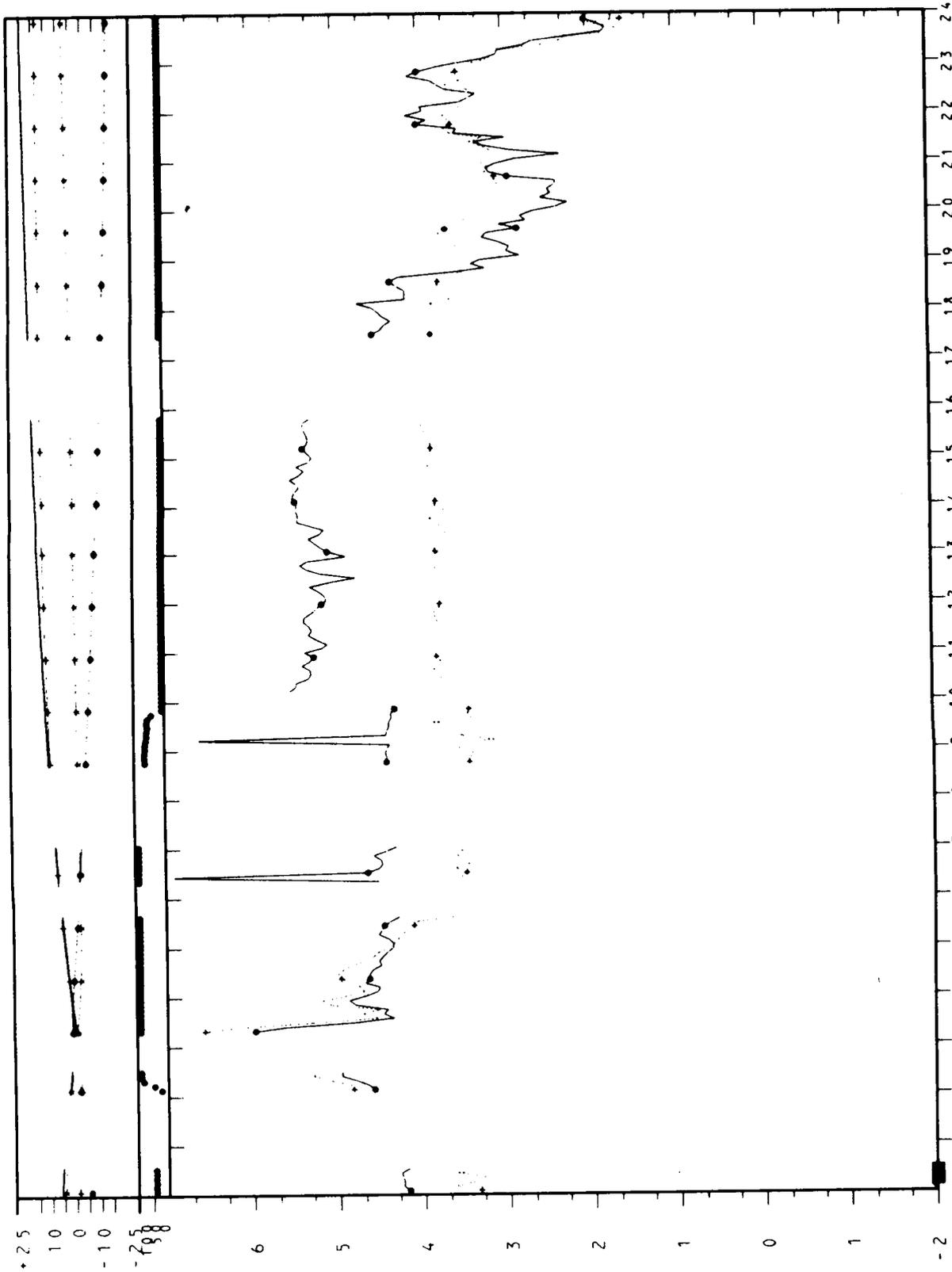




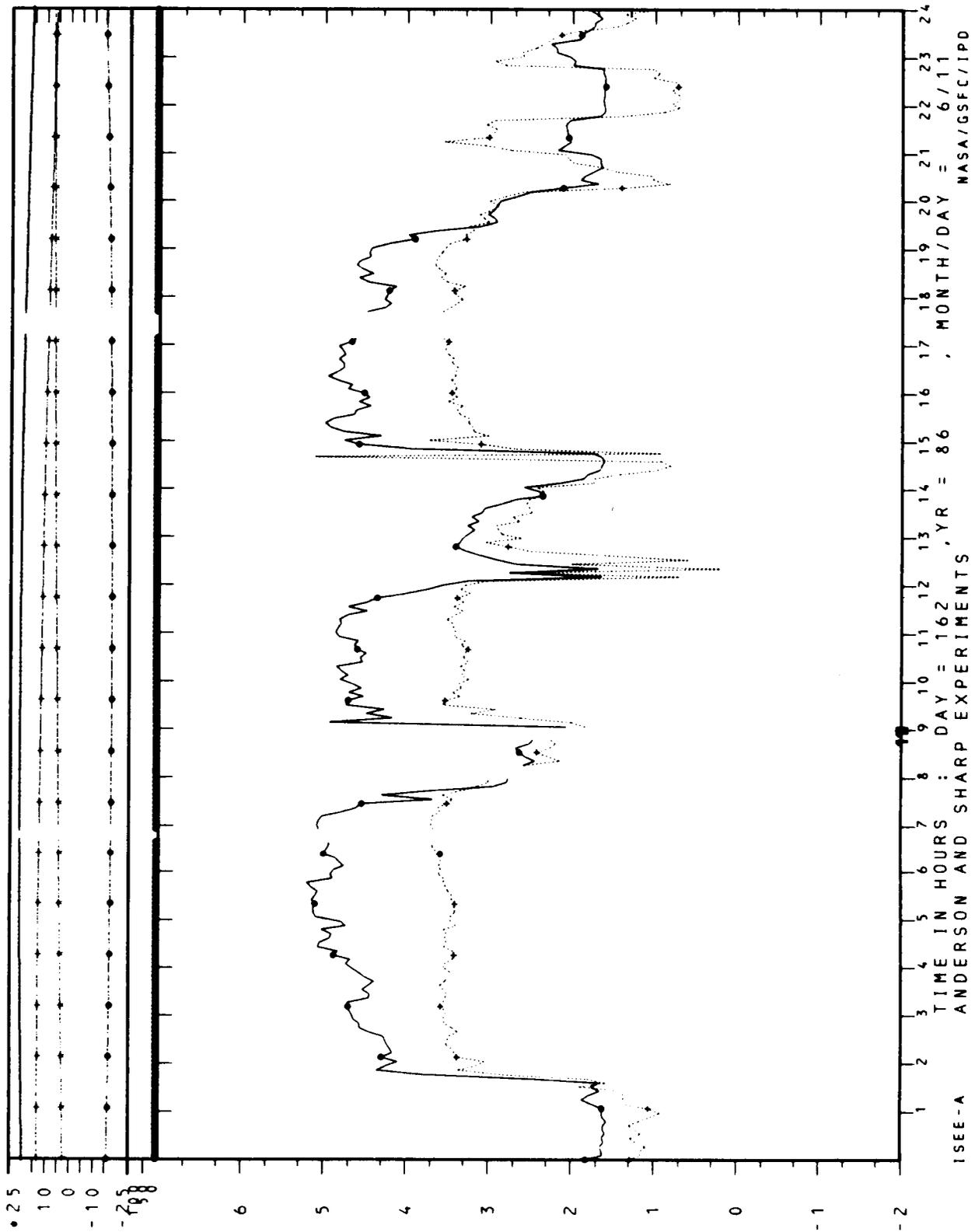


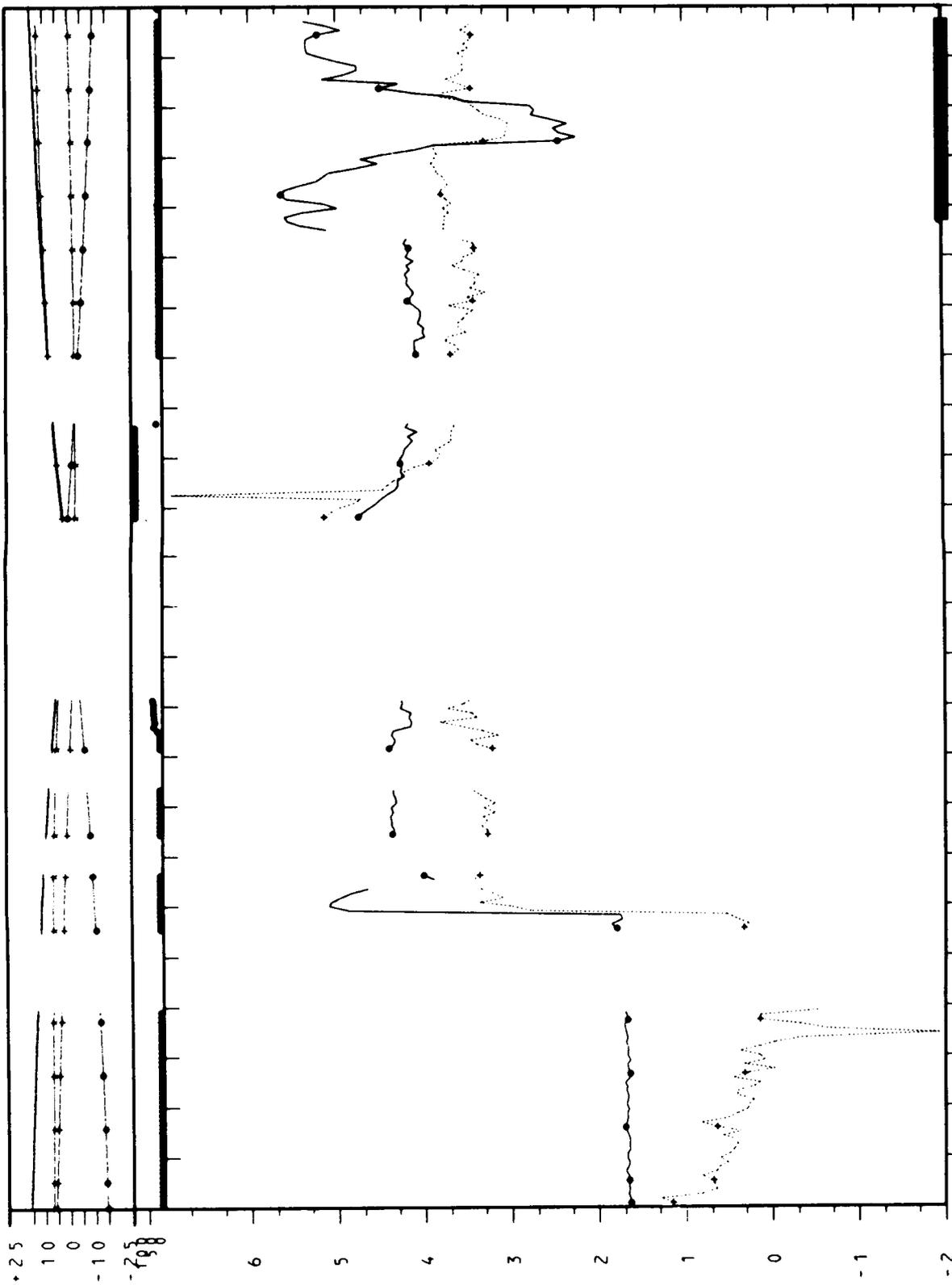
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ISEE-A
 ANDERSON AND SHARP EXPERIMENTS
 TIME IN HOURS : DAY = 160 , YR = 86
 MONTH/DAY = 6/9
 NASA/GSFC/IPD



ISEE-A
 ANDERSON AND SHARP EXPERIMENTS
 TIME IN HOURS : DAY = 161 , YR = 86 ; MONTH/DAY = 6/10
 NASA/GSFC/IPD

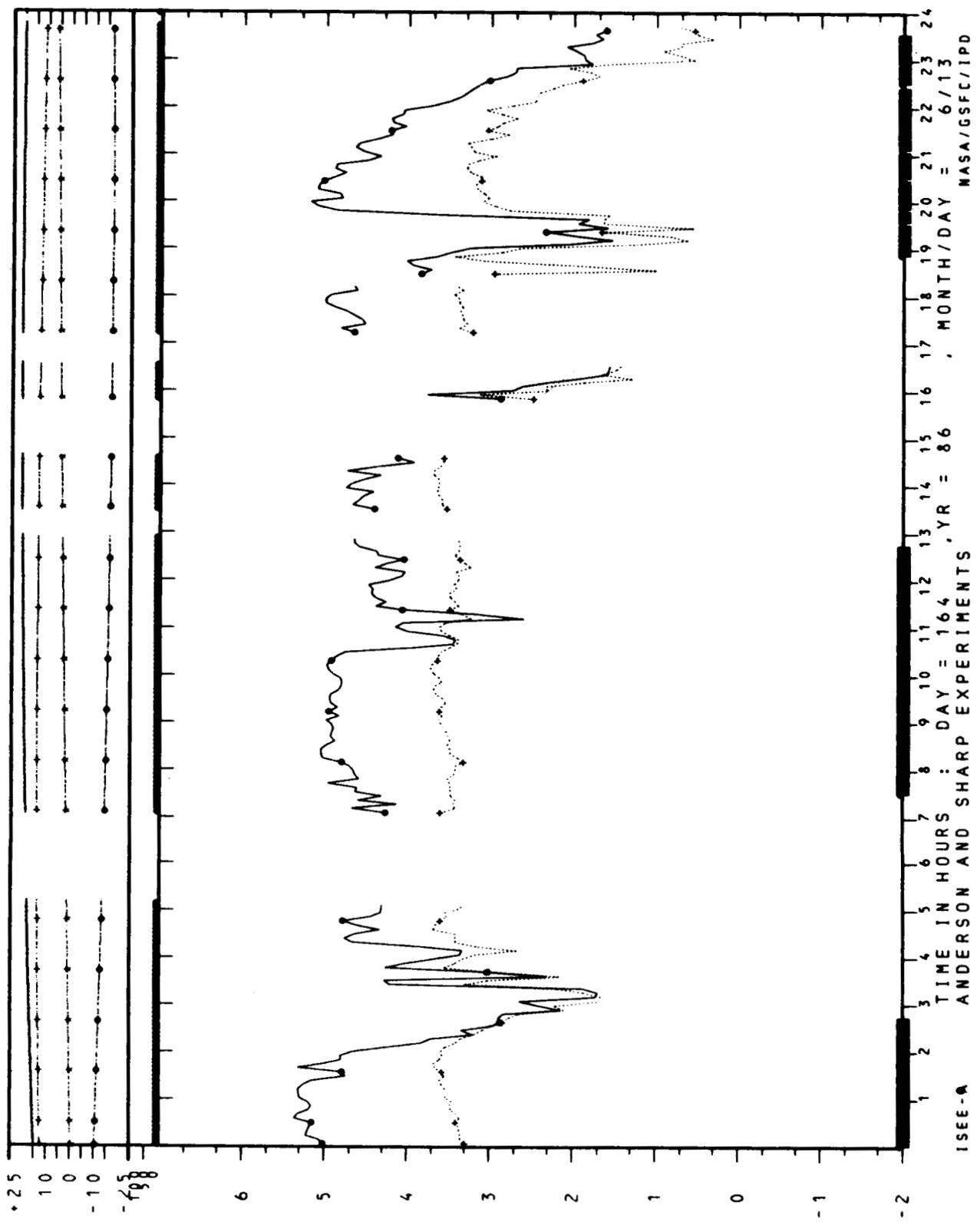


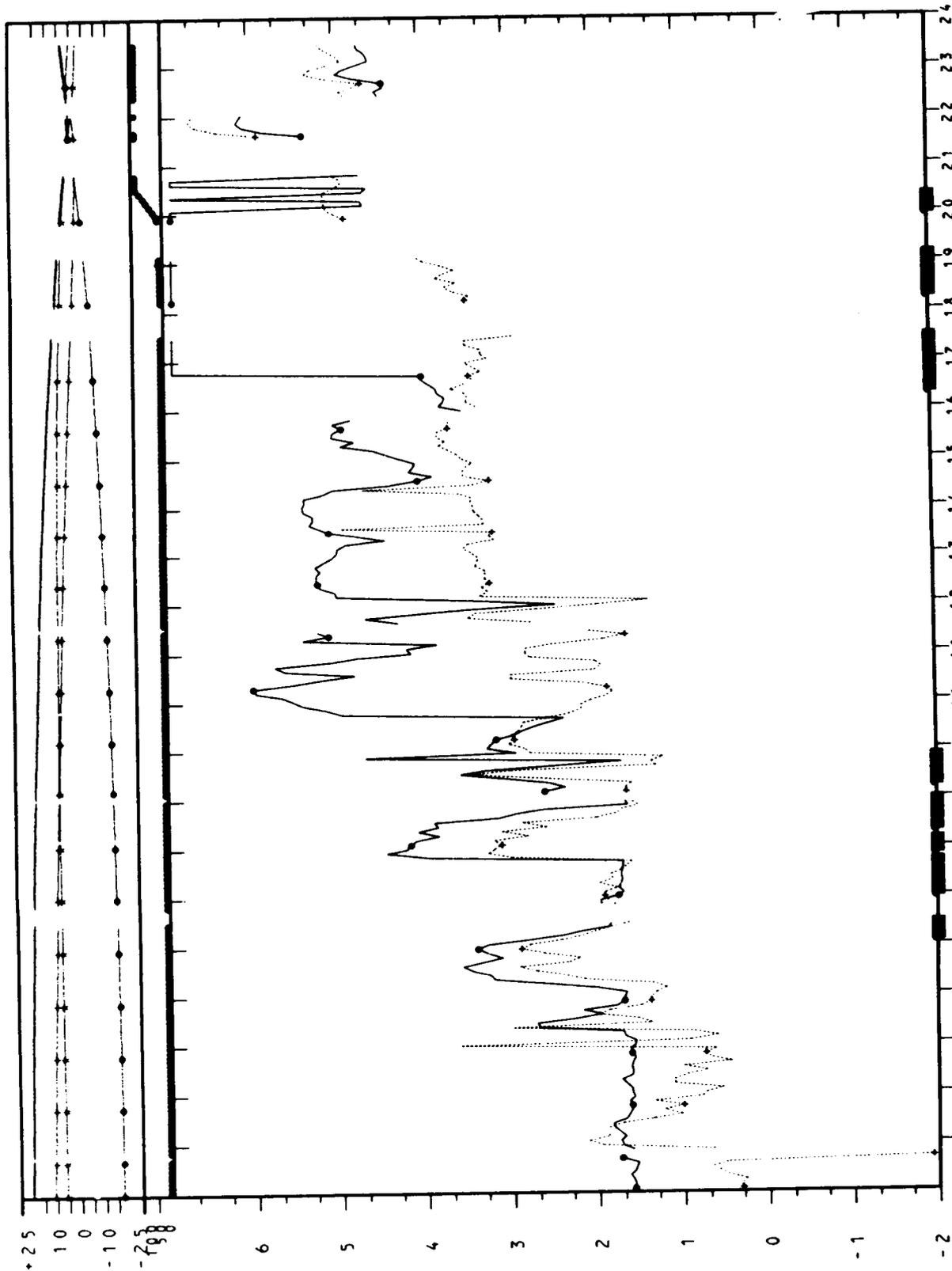


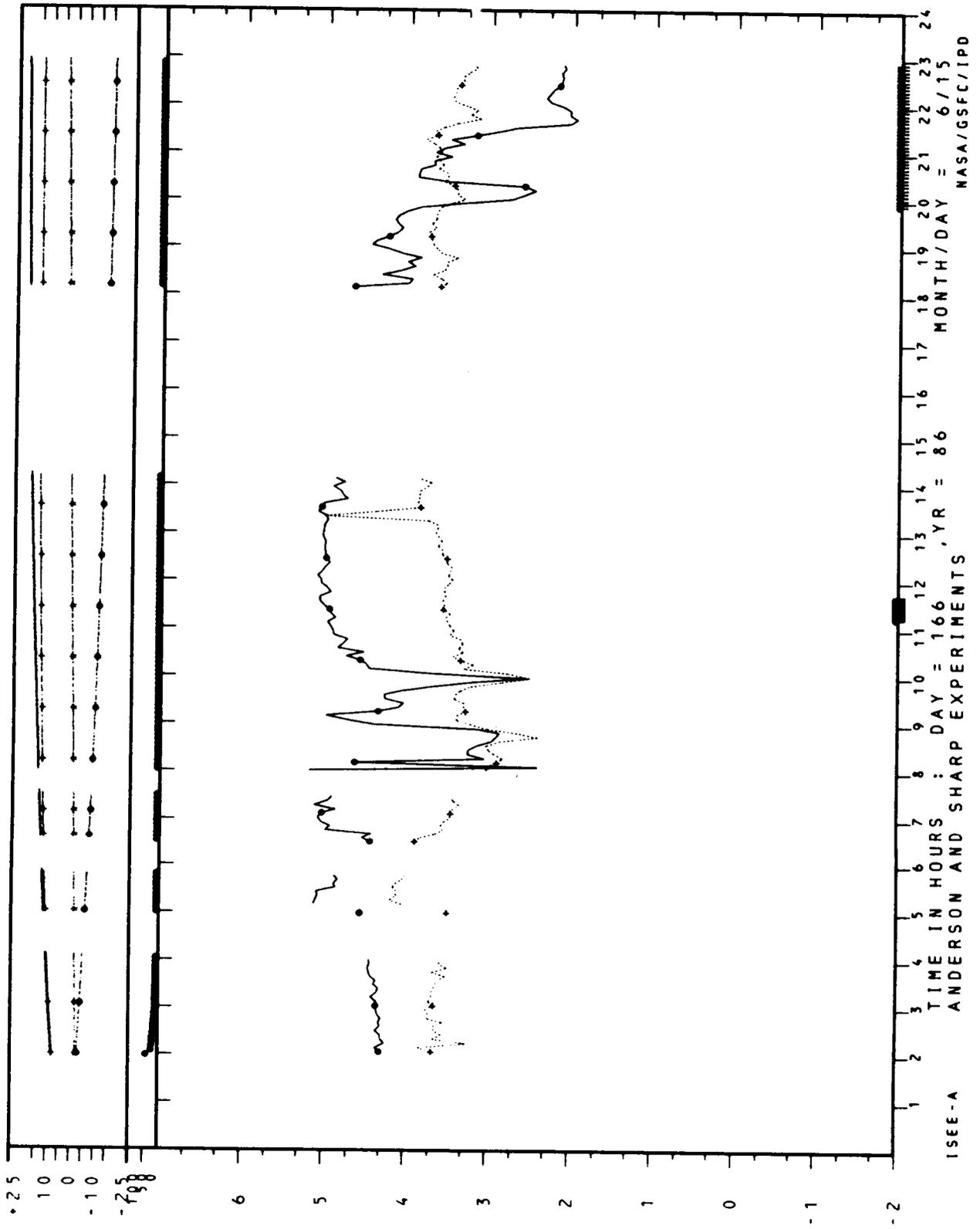
MONTH/DAY = 6/12
 NASA/GSFC/IPD

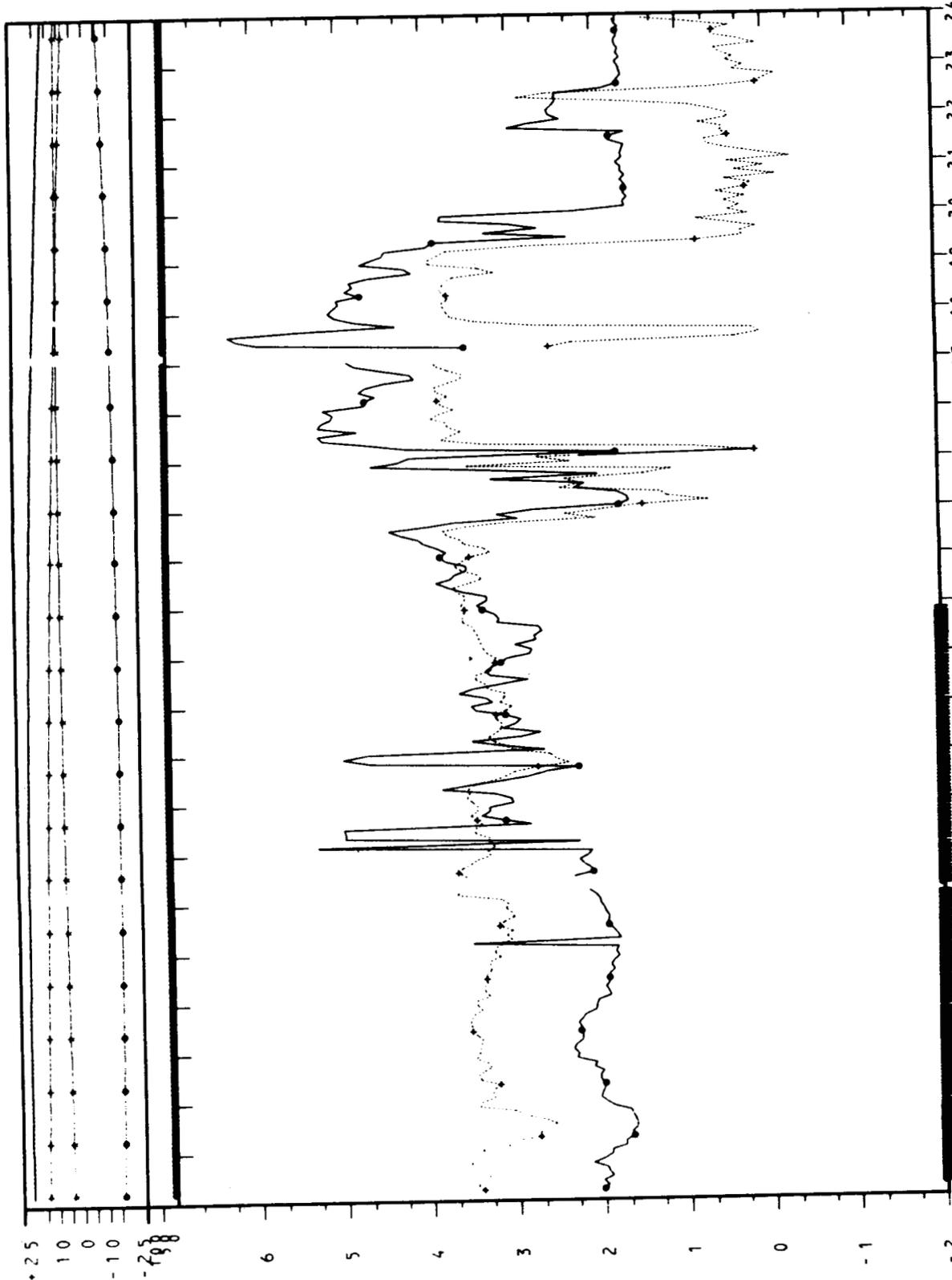
DAY = 163 , YR = 86
 ANDERSON AND SHARP EXPERIMENTS

ISEE-A









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TIME IN HOURS : DAY = 167 , YR = 86 , MONTH/DAY = 6/16
 ANDERSON AND SHARP EXPERIMENTS
 ISEE-A
 NASA/GSFC/IPD